8x4 SpaceSaver Garden Shed - Double Door Assembly Manual

Revision #12
March 16, 2012

Thank you for purchasing an 8x4 SpaceSaver Garden Shed. Please take the time to identify all the parts prior to assembly.

<u>Safety Points and Other Considerations</u>
Our products are built for use based on proper installation and normal residential use, on level ground. Please follow the instruction manual when building your shed and retain the manual for future maintenance purposes.

Some of the safety and usage measures you may wish to consider include:

-snow load ratings vary by geographical location. If heavy or wet snowfall occurs, it is advisable to sweep the snow off the roof(s).
-if the product is elevated, any structural and building code requirements are solely the customer's responsibility, and should be abided by.
-in high or gusty wind conditions, it is advisable to keep the structure securely grounded.
-have a regular maintenance plan to ensure screws, doors, windows and parts are tight.

Customer agrees to hold Outdoor Living Today Partnership and any Authorized Dealers free of any liability for improper installation, maintenance and repair.

In the event of a missing or broken piece, simply call the Outdoor Living Today Customer Support Line @ 1-888-658-1658 within 30 days of the delivery of your purchase. It is our commitment to you to courier replacement parts, free of charge, within 10 business days of this notification. Replacement parts will not be provided free of charge after the 30 day grace period.

Thank you for purchasing our 8x4 SpaceSaver Garden Shed Double Door. Please take the time to identify all the parts prior to assembly.

Parts List:

A. Floor Section

1 - 45 ½" x 75" Large Floor Joist Frame (2 Joists unattached)
1 - 45 ½" X 21" Small Floor Joist Frame (2 Joists ATTACHED)
2 - 1 ½" x 3 ½" x 72" Floor Joists
5 - 1 ½" x 3 ½" x 45 ½" Floor Runners
1 - 5/8" x 45 1/2" x 75" Plywood
1 - 5/8" x 45 1/2" x 21" Plywood

B. Wall Section

4 - 45 ½" x 75" - Wall Panels
2 - 12" x 73" - Narrow Wall Panels
2 - 9" x 45 ½"- Wall Extendors
2 - - 45 ¼" Angle Wall Extendors
4 - 1 ½" x 2 ½" x 45 1/2" Wall Plates
1 - ¾" x 3 ½" x 70" - Horizontal Wall Cleat
1 - ¾" x 3 ½" x 21" - Horizontal Wall Cleat

Door, Jambs & Header

2 - 31 1/2" X 72" Full Doors
2 - 1 ½" x 3" x 73" Door Jambs
1 - 2" x 3" x 78" Door Header-Long (Dado cut on edge)
2 - 2" x 3" x 6 ½" Door Headers -Short (Dado cut on edge)
2 - 1/2" x 2 1/2" x 72" - Vertical Interior Door Stops
1 - 1/2" x 2 1/2" x 68" - Top Horizontal Interior Door Stop
1 - 3/4" x 2 1/2" x 10" - Bottom Interior Door Stop
1 - 1/2" x 2 1/2" x 71" - Interior Vertical Door Flange

C. Rafter & Roof Section

2 - Roof Panels 51 ½" x 55 ¾" (1-Left 1- Right)
6 - 1 ½" x 2 ½" x 54" Rafters
2 - ½" x 4" x 48" Front Soffit
2 - ½" x 3" x 48" Rear Soffit
4 - Filler Shingles 5 1/2" Wide

D. Miscellaneous Section

(Skirting, Facia ,Trim & Misc. Parts)

2 - ½" x 4" x 54 1/8" Side Angle Cut Facia
2 - ½" x 4" x 50" Front Facia
2 - ½" x 4 ½" x 50" Rear Facia
6 - ½" x 4 ½" x 45 1/4" Bottom Skirting
4 - ½ x 2 ½" x 75" Corner Filler Trim
2 - ½" x 2 ½" x 78 ¾" Vertical Door Trim
2 - ½" x 2 ½" x 80" Front Side Corner Trim
3 - ½" x 2 ½" x 88 ¾" Rear/Middle Trim
2 - ½ x 4 ½" x 78 ¾" Front Corner Trim
2 - ½" x 4 ½" x 88 ¾" Rear Corner Trim
1 - ½" x 1 1/4" x 64" Horizontal Door Trim
2 - ½" x 2 1/2" x 10" Horizontal Narrow Wall Trim
1 - 8"x 96" Strip of Roofing Felt
2 - ½" x 4" x 51 5/8" Roof Ridge Board
2 - Detail Facia Plate (Larger for Rear Facia)
1 - 45 ¼" Spare Piece of Siding

Note: We recommend you drill a 1/8" pilot hole for each screw, to avoid splitting wood. The hole depth should be equal to 3/4 the length of screw.

Note: All Trim, Facia and Bottom Skirting pieces will be positioned rough face out when installed.

8x4 SPACESAVER DD HARDWARE PACKAGE

Hardware Kit (Provided)

Note: screws and nails shown actual size.

2 1/2”

1 1/4”

Finishing

1 1/4”

Square Drive Bit

2”

Black

3/4”

Black

Tee Hinge x 6

Door Handle x 2

Barrel Bolt

Cane Bolt

Simpson Strong Tie x 8

Tools Required (Not Provided)

Hammer

Screw Gun/Drill

Tape Measure

Wood Clamp

Utility Knife

Level

Pliers

Ladder

1/8” & 1/2” Drill Bits

Safety Equipment Required (Not Provided)

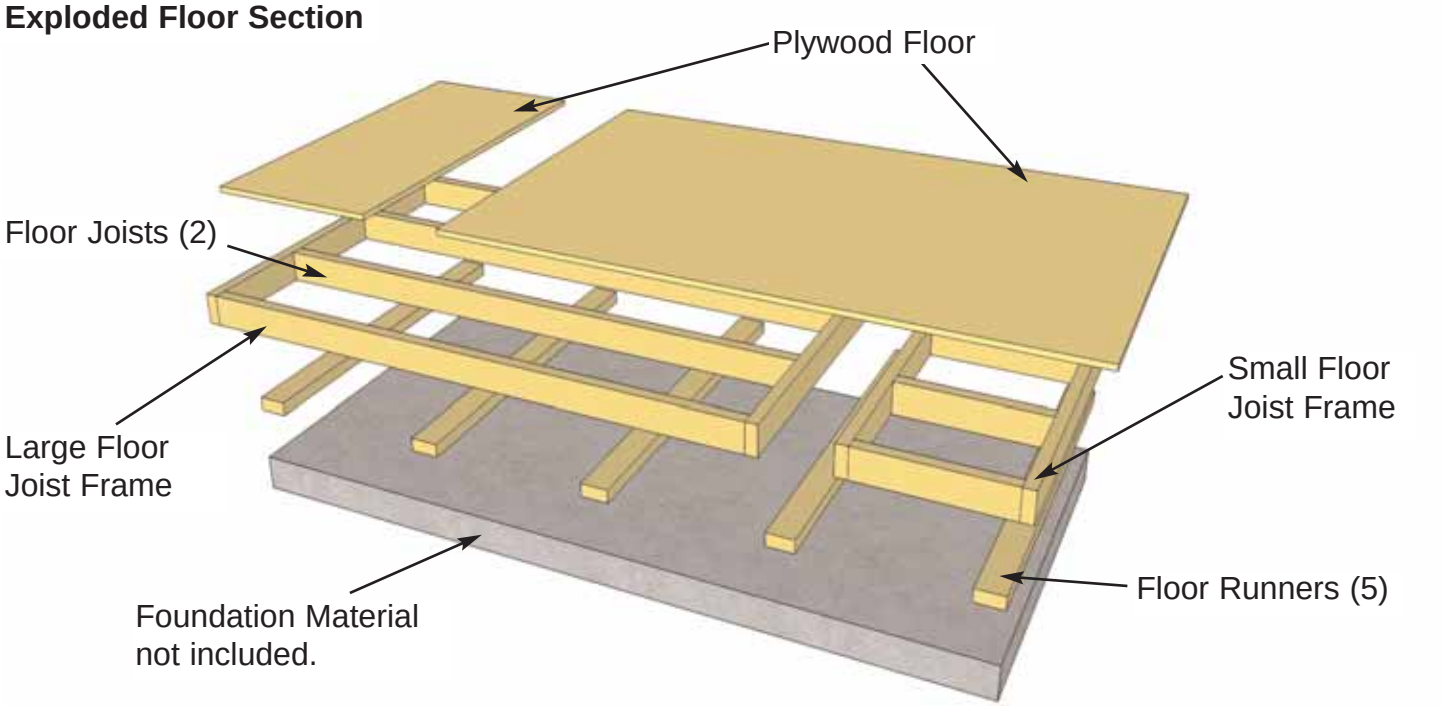
Safety Glasses

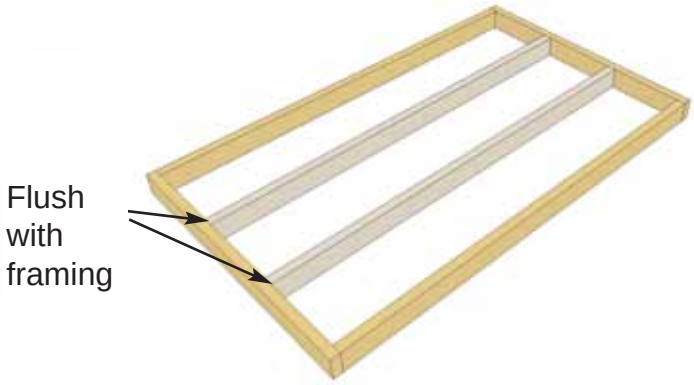
Work Gloves

A. Floor Section

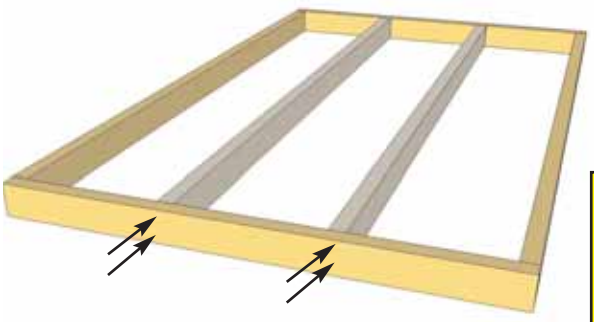
Exploded view of all parts necessary to complete Floor Section. Identify all parts prior to starting. Note: Floor Footprint is 96” wide x 45 1/2” deep.

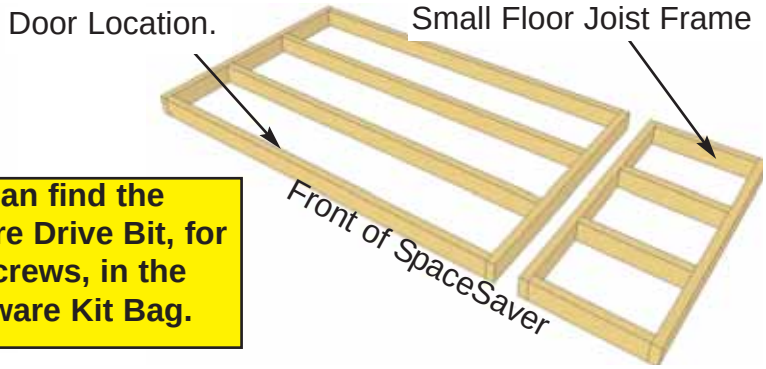
Exploded Floor Section





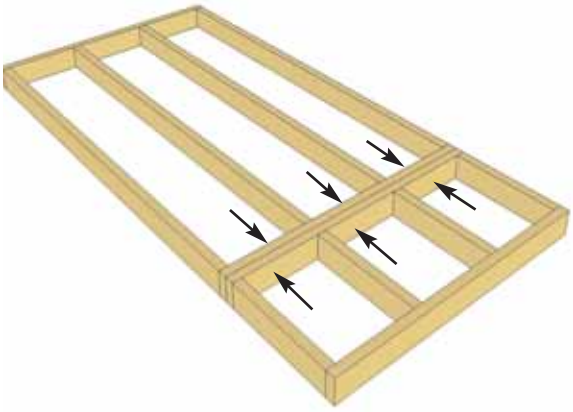
1. Lay out **Large Floor Joist Frame and 2 Floor Joists** as illustrated above. Position Joists equally in Floor Joist Frame. Use **Small Floor Joist Frame** as a template to determine joist position. Position Joist so flush with framing.



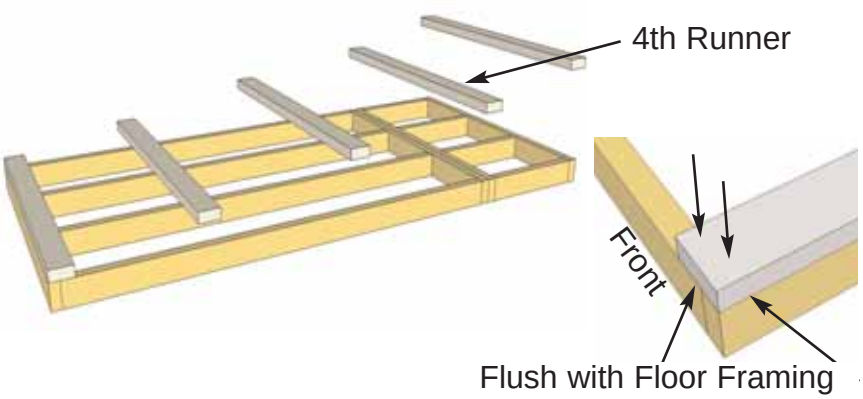


You can find the Square Drive Bit, for the screws, in the Hardware Kit Bag.

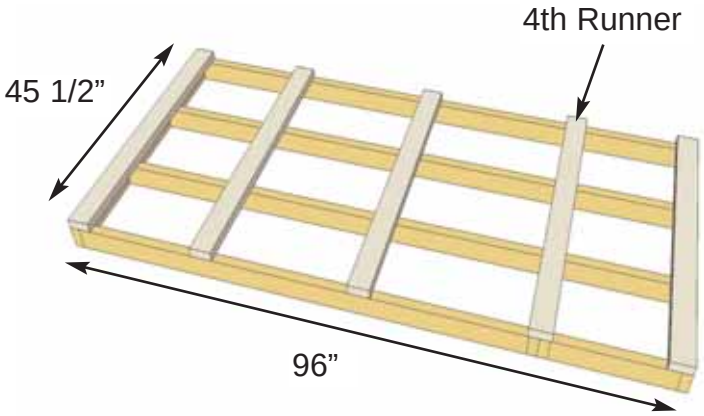
2. When correctly positioned, attach each Joist with 4 - 2 1/2” screws (2 per end). **You can find the Square Drive Bit for the screws in with the Hardware Kit Bag.**

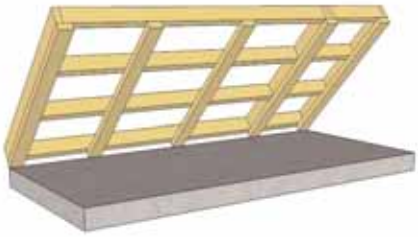


3. With Floor Joist Frames positioned together flush, attach with 6 - 2 1/2" screws.

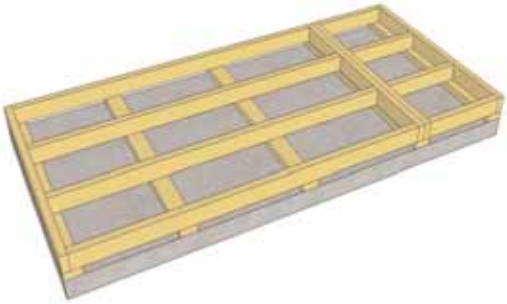


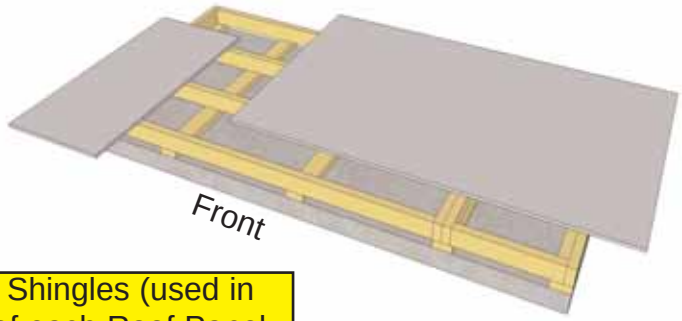
4. Position and attach **Floor Runners** to completed floor frames with 6 - 2 1/2" screws per Runner . Make sure Runners are flush with outside and front and rear floor framing but not overhanging. Make sure 4th Runner is placed equally over seam where floor frames meet.





5. With Floor Runners attached, carefully flip the floor over and place on your foundation. **Caution -** you may need 2 people to assist you. Be careful when laying floor down not to bend or twist floor. **Note:** The floor will be flipped over and floor runners will sit on your foundation. It is important to note that having a level foundation is critical. Choosing a foundation will vary between regions. Typical foundations can be concrete pads or patio stones positioned underneath the floor runners.

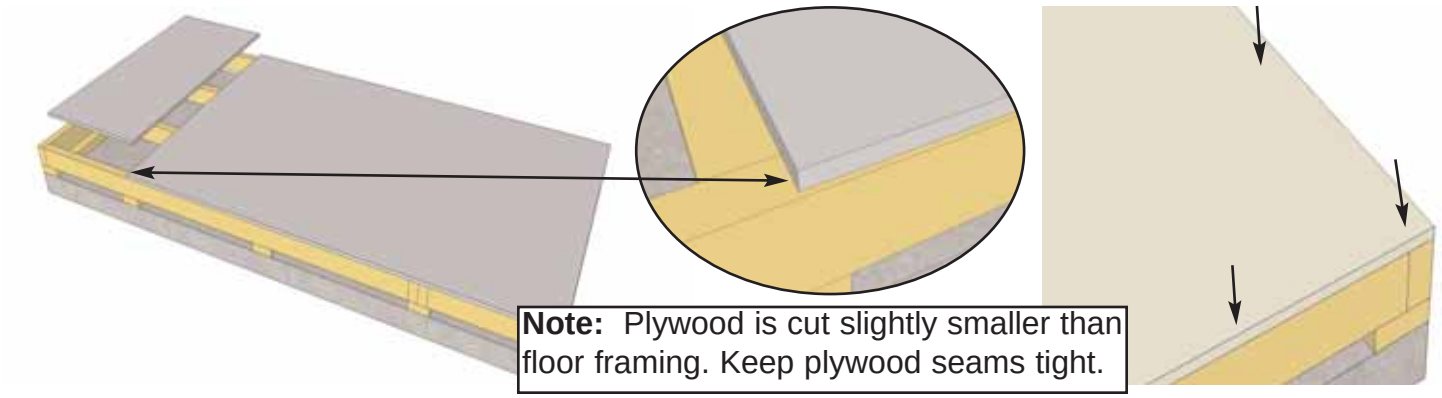




To help level Floor, locate Shim Shingles (used in packaging) found in the edges of each Roof Panel.

6. When in place, level floor completely before proceeding.

7. Position **Plywood Floor** pieces (2) on top of completed floor joists.

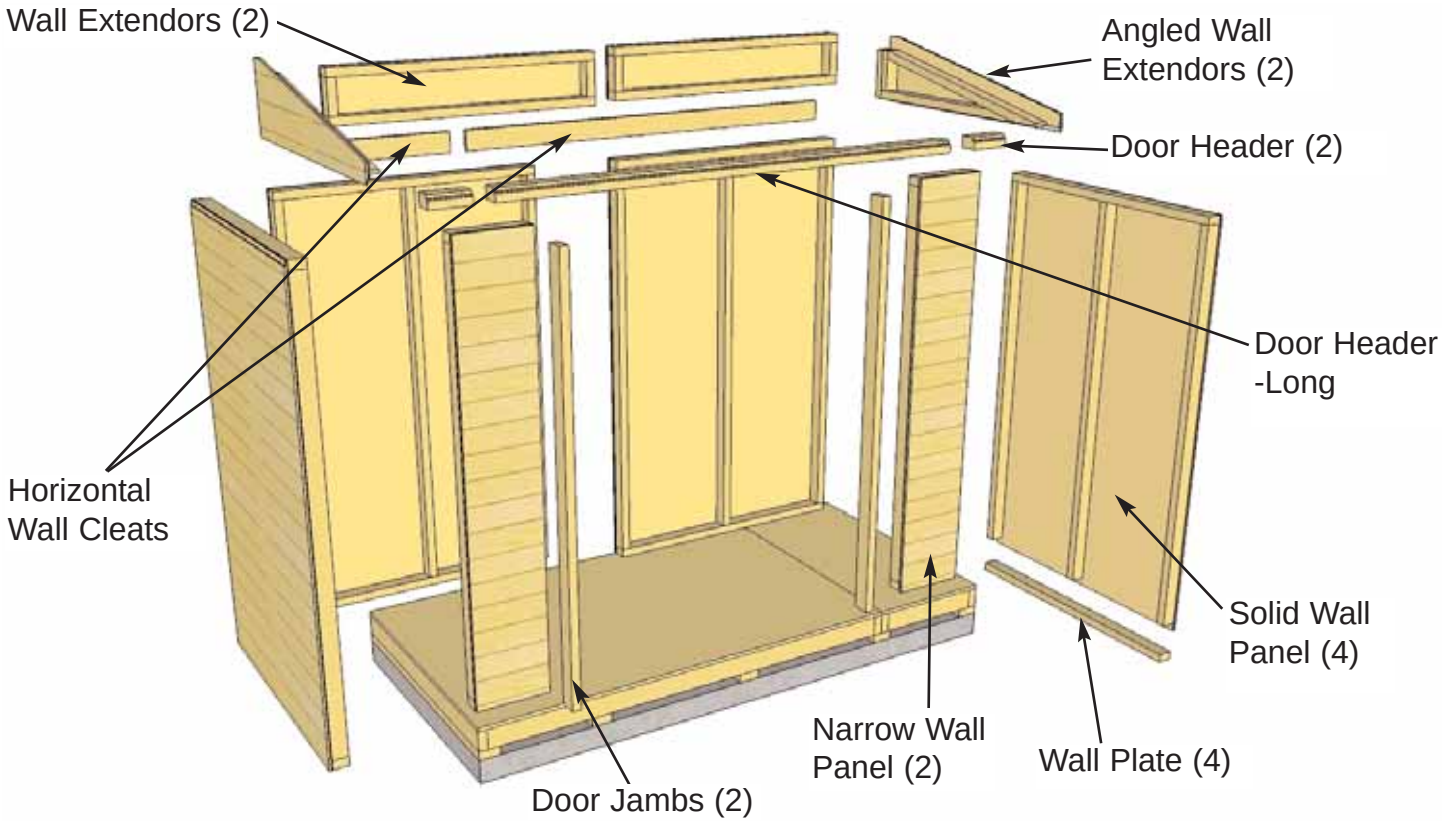


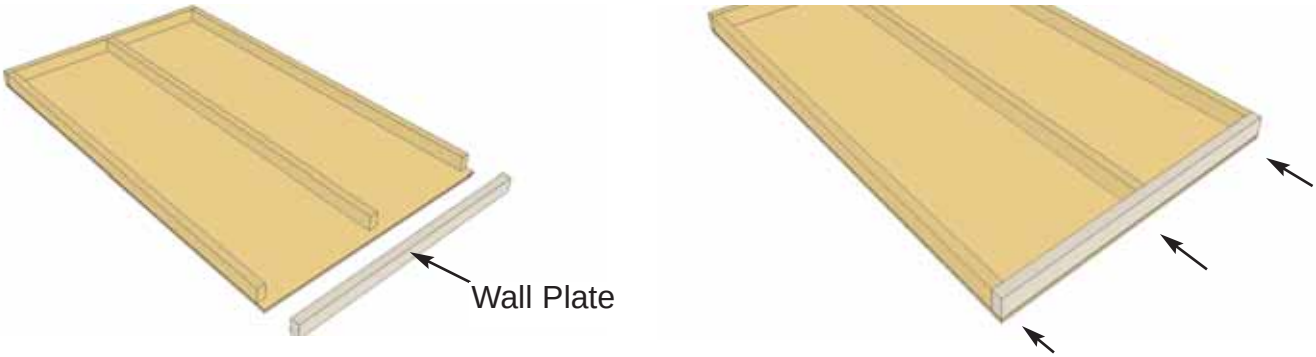
Note: Plywood is cut slightly smaller than floor framing. Keep plywood seams tight.

8. Position Plywood so it sits almost flush with outside of floor joist framing (see **Note**). When correctly positioned, attach to all floor joists with 1 1/4" screws. Use screws every 16".

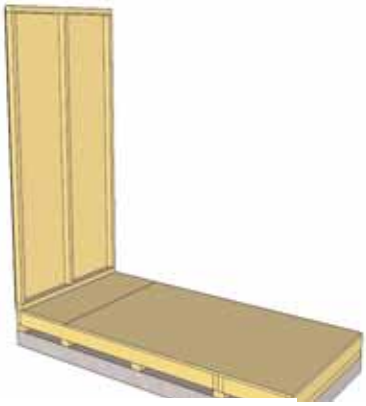
B. Wall Section

Exploded view of all parts necessary to complete the Wall Section. Identify all parts prior to starting.

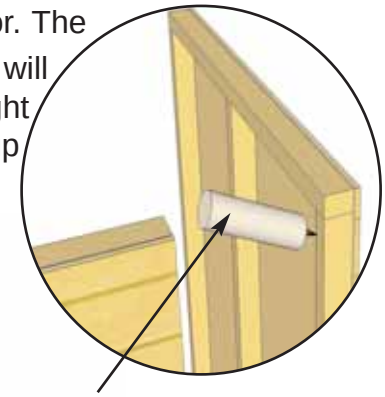


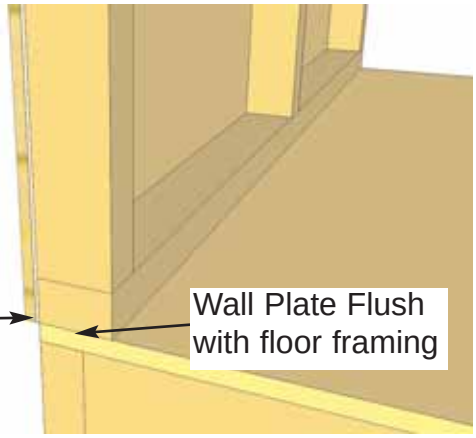


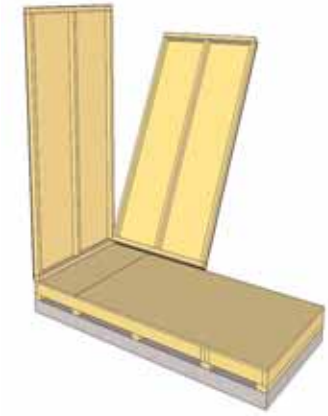
9. Locate 4 **Solid Wall Panels** and 4 **Wall Plates.** Attach Plates to bottom of studs of each wall panel with 3 - 2 1/2" screws. Position so plates are flush with framing.



10. Starting on Side, position a **Solid Wall Panel** on top of plywood floor. The Wall Panel bottom framing will sit flush with floor framing. Wall siding will overhang the floor. **Important:** Make sure all walls are aligned in their upright position. If not ,water may leak into your shed. Unsure if panel is facing up or down? Recently attached Bottom Plate is on bottom of panel.



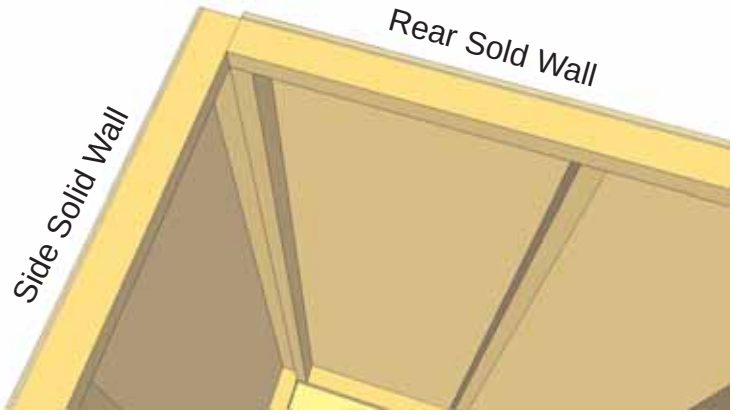




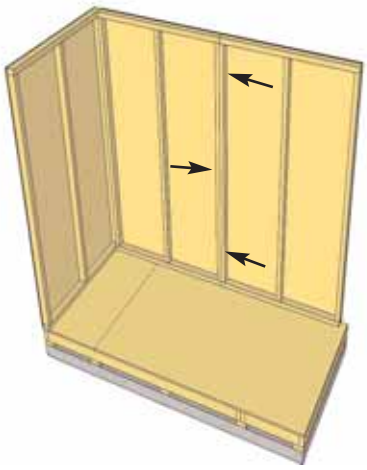
Optional - Caulking seams will help prevent moisture from entering at seam. Caulking not included in kit.

11. Outside 2x3 framing of wall panel should be flush with outside of floor framing when properly aligned. **Note:** Siding will overhang the floor by approx. 1/2”. When positioned correctly, locate 2nd Solid Wall Panel and place in Corner.

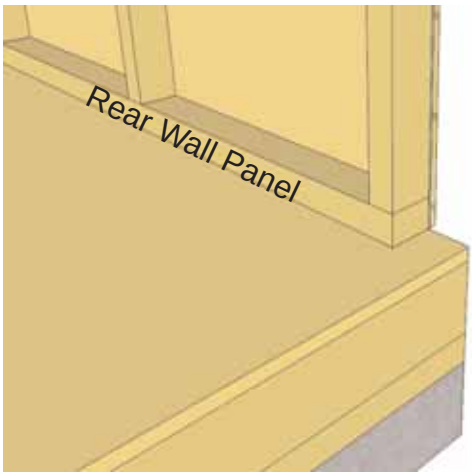
Do Not Attach Walls To Floor until Step 30.



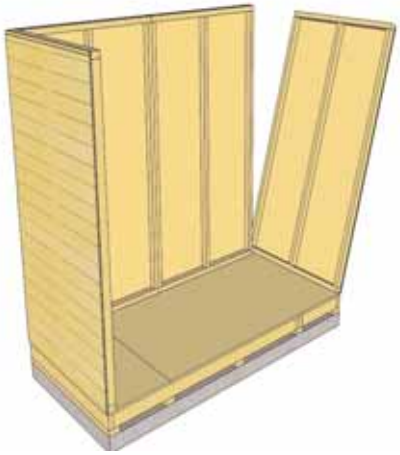
12. Butt both vertical wall studs of side and rear walls together and attach with 3 - 2.5” screws. Screw at the bottom, middle and top of stud to secure properly. **Note: drill pilot holes in studs to prevent splitting**.



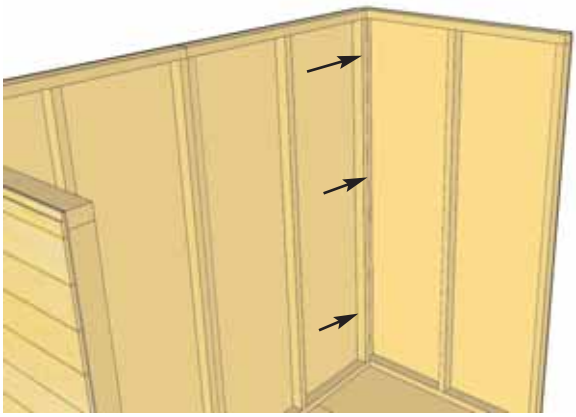
13. With the corner wall attachment complete, position the second rear wall panel in place so bottom 2x3 wall framing is sitting flush with outside floor framing. Wall siding should overhang floor by approximately 1/2". When positioned correctly, attach both wall panel studs together as per **Step 12** with 3 - 2 1/2" screws.



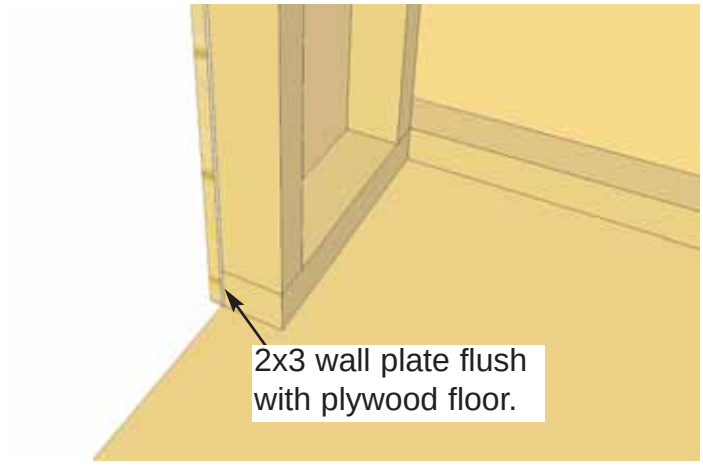
Do Not Attach Walls To Floor until Step 30



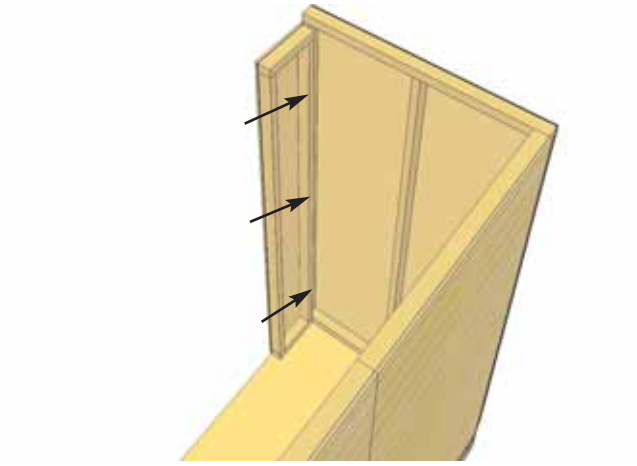
14. With Rear Wall Panel in place, position other side wall panel on floor as per **Step 10 & 11**.



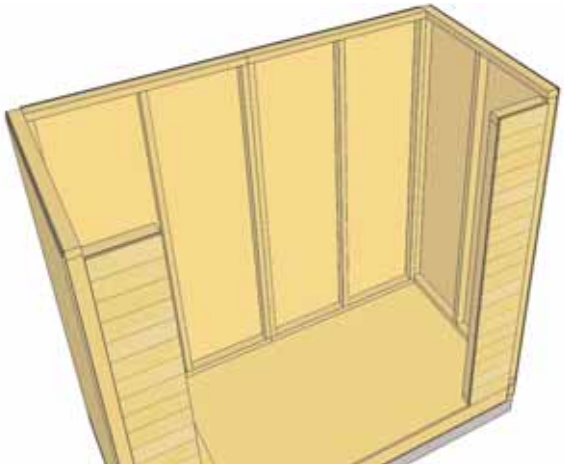
15. Secure side wall panel to rear wall panel as per **Step 12**. Next, locate a **Narrow Wall Panel** and position in front corner.

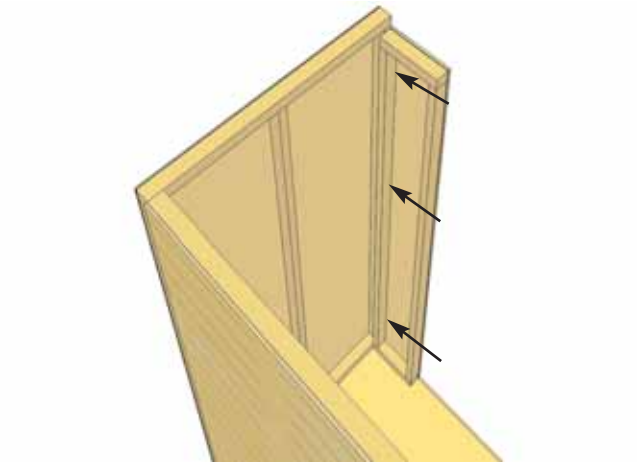


16. Once again position the 2x3 wall plate so it sits flush on floor and siding overhangs. **Note:** Narrow Wall Panel is only 73" high.

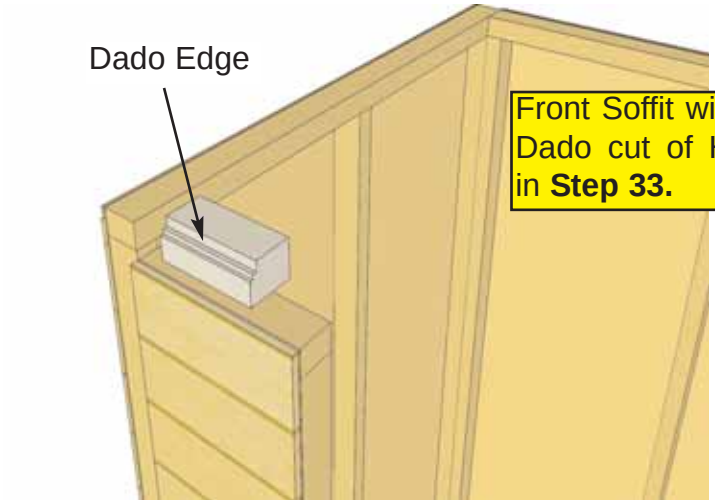


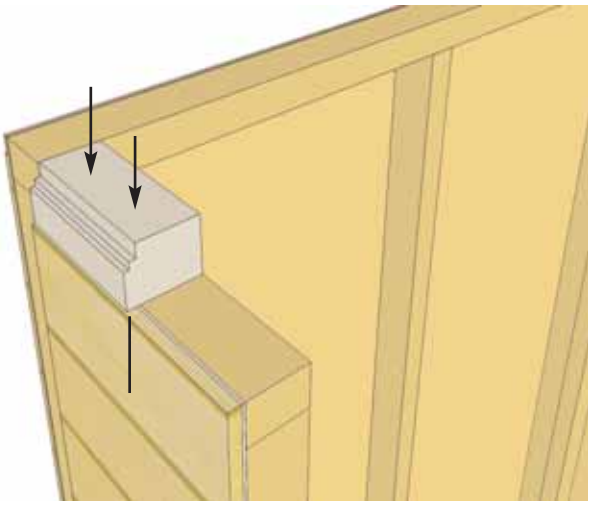
17. When correctly positioned, secure Narrow Wall Studs to Side Wall Stud with 3 - 2 1/2" screws.



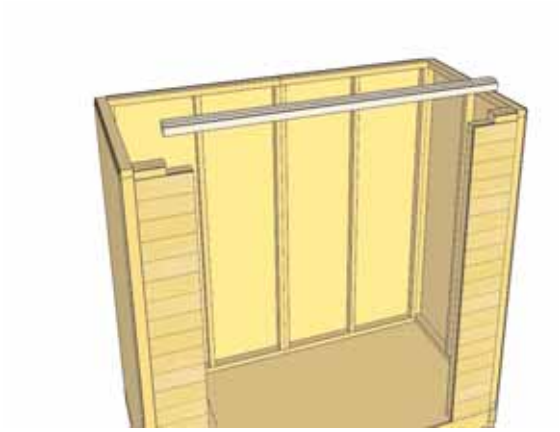


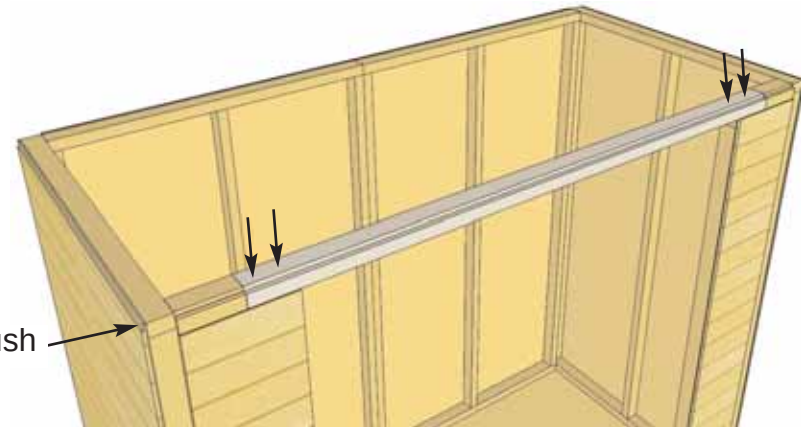
18. Complete opposite Narrow Wall as per **Steps 16 & 17.**



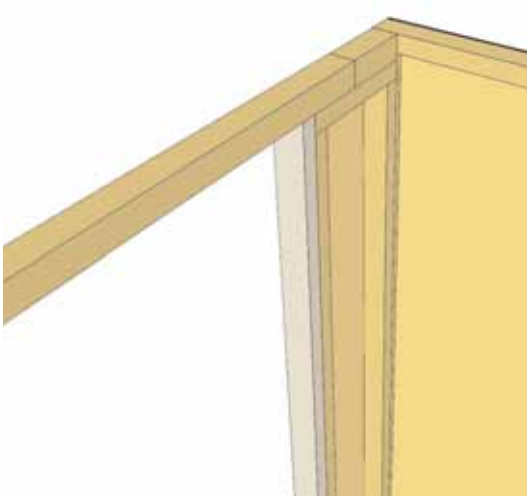


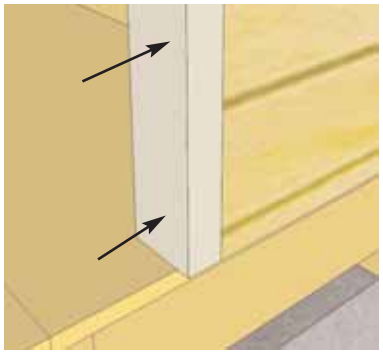
19. Locate both **Door Headers - Short** (Dado Cut on edge facing out). Attach both short end pieces using 2 - 2 1/2" screws per piece. Screw from top down into wall framing. Align to inside of wall framing.

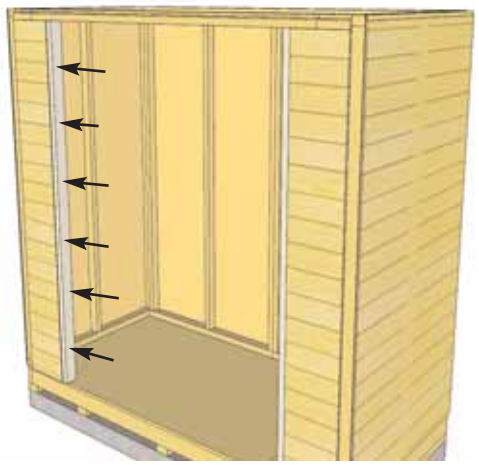




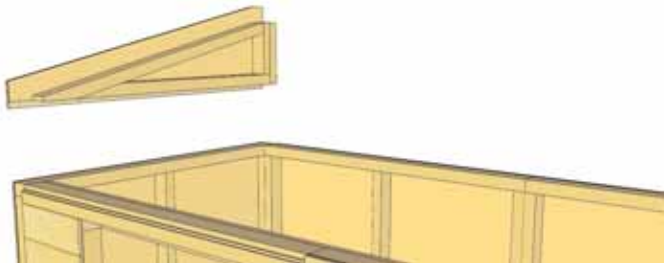
20. Locate **Door Header - Long** (Dado Cut on edge facing out). Attach using 2 - 2 1/2" screws per end. Screw from top down into wall framing. Once again, align with inside of wall framing and other Door Headers. **Hint:** Push Side Wall to close any gaps between Headers.

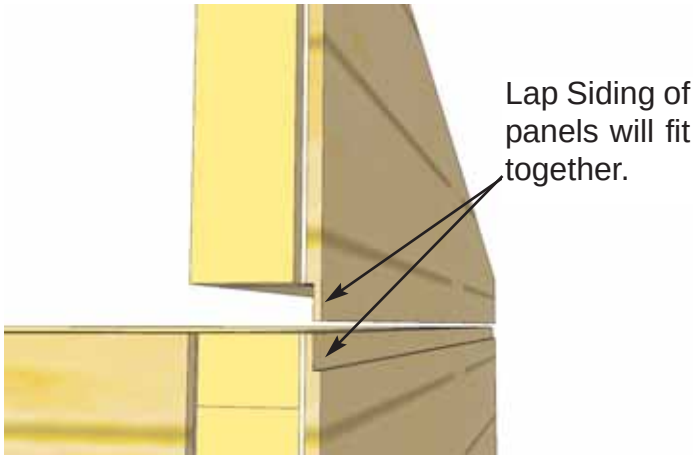




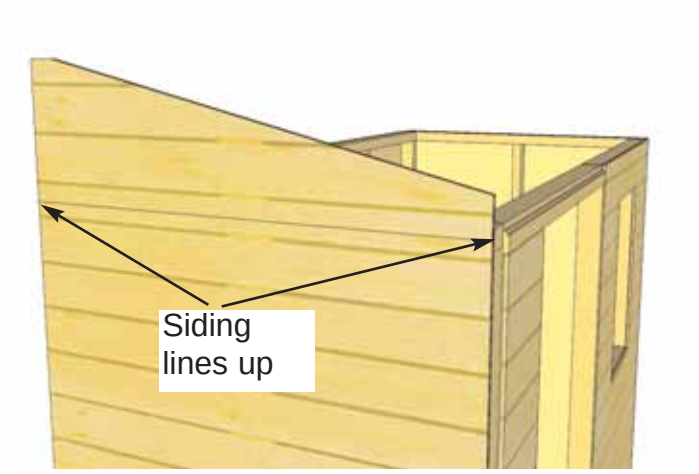


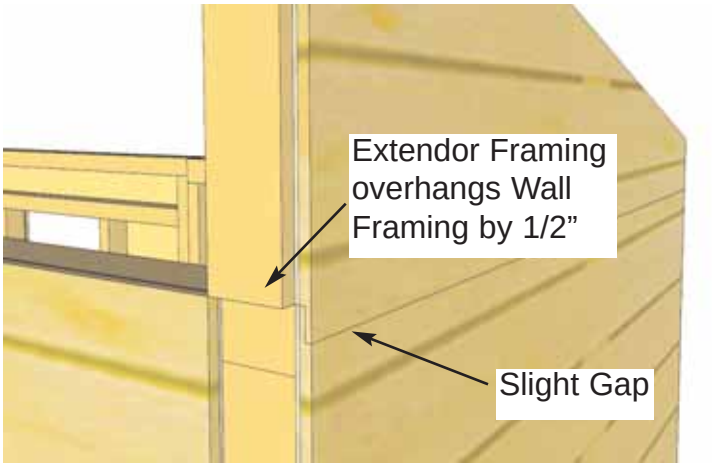
21. Locate both **Vertical Door Jambs** and position flush against front narrow wall stud. The Jamb is 3" wide and will sit flush to outside of wall siding**.** When positioned correctly, secure Jamb using 6 - 2 1/2" screws. Complete both sides.



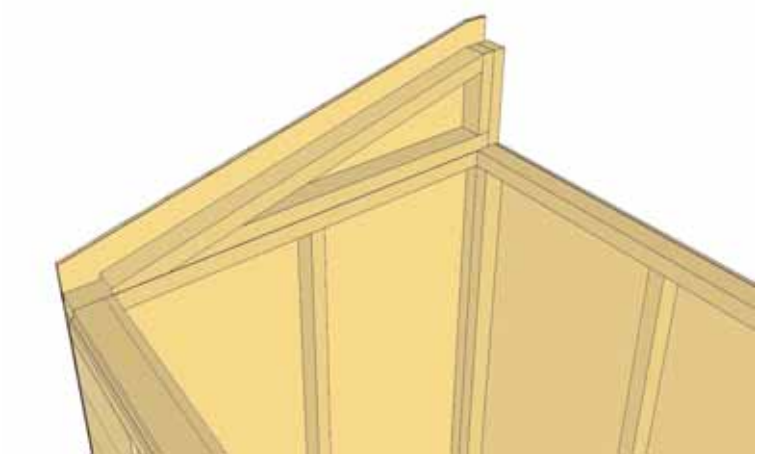


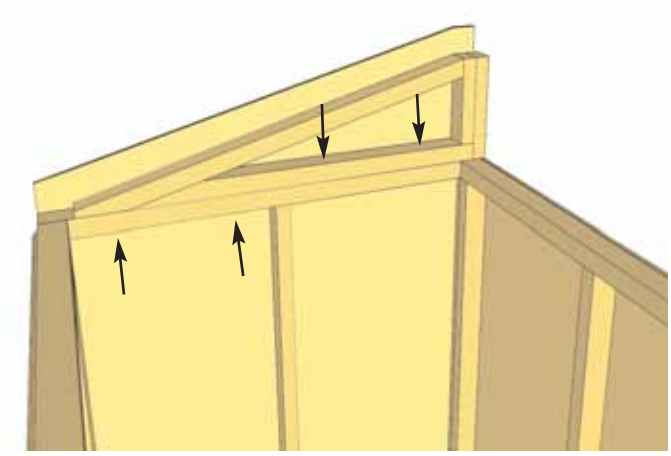
22. Locate an **Angled Wall Extendor** and place on side wall panel frame. **Note:** lap siding of Wall Extendor will cover lap siding of side wall.



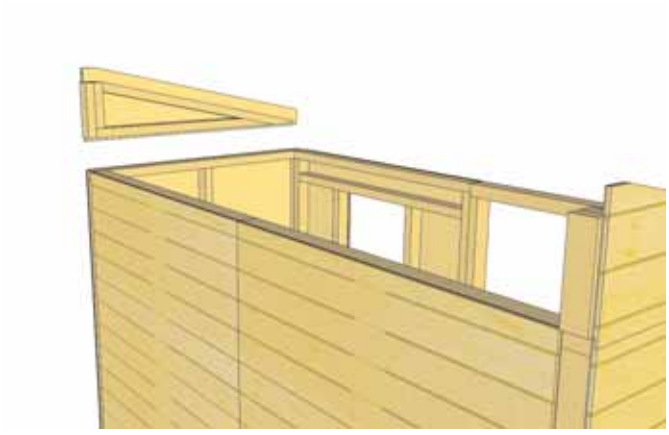


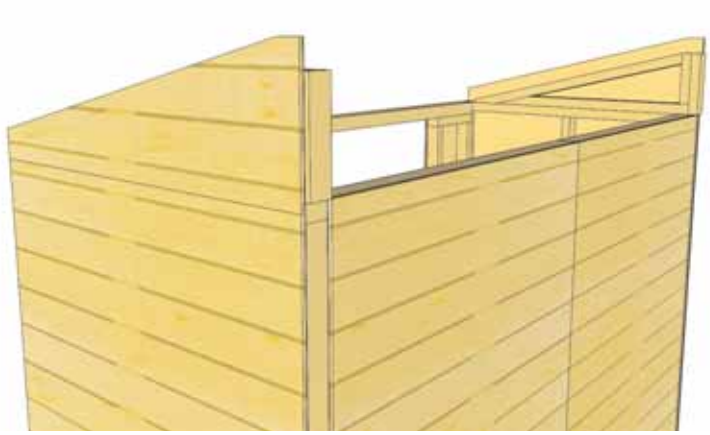
23. Align siding of Angled Wall Extendor and Side Wall so they are flush. **Note:** When correctly aligned, vertical rear framing of Angled Gable Wall will overhang Side Wall framing by approximately 1/2”.



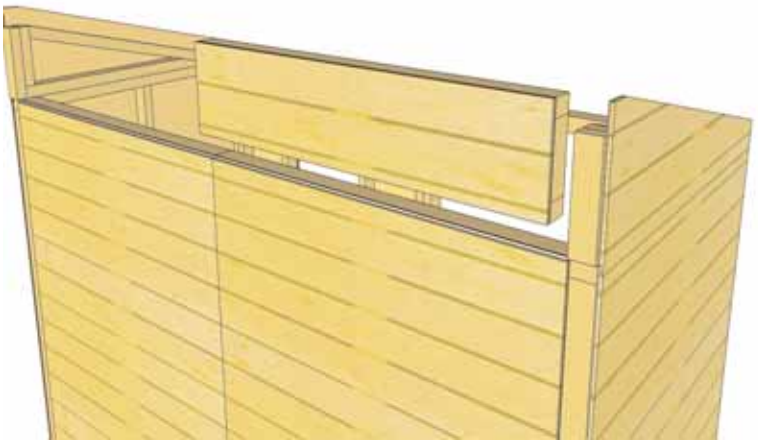


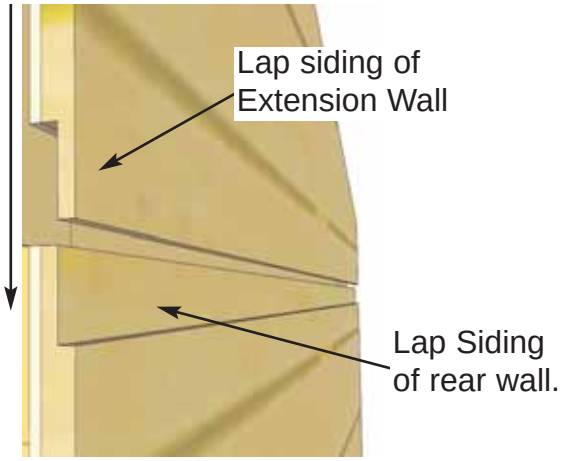
24. With Angled Wall Extendor and Side Wall aligned correctly, secure together from the inside with 4 - 2 1/2” screws.



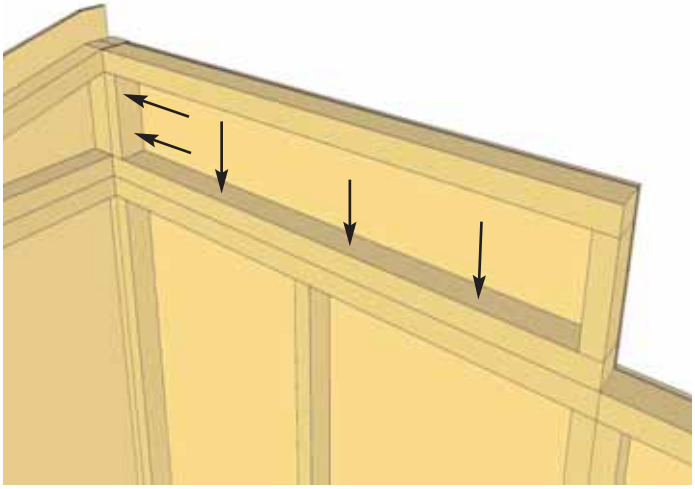


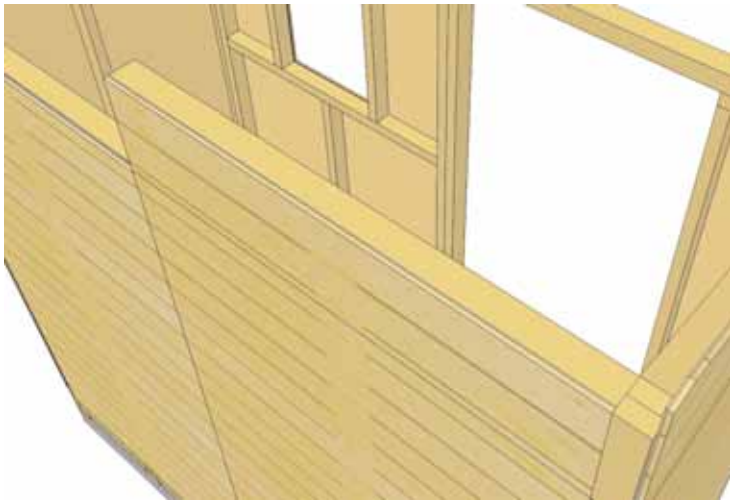
25. Complete opposite Angled Wall Extendor positioning and attachment as per **Steps 23 & 24.**



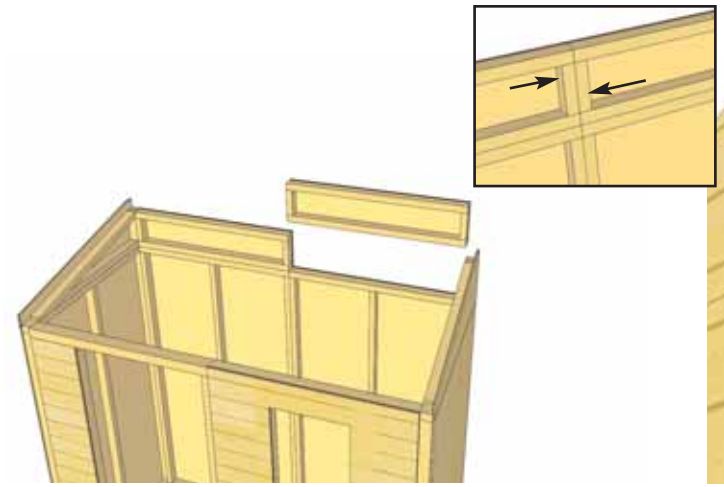


26. Locate one **Wall Extendor** and place on rear wall panel with lap siding of extendor overlapping that of the rear wall.

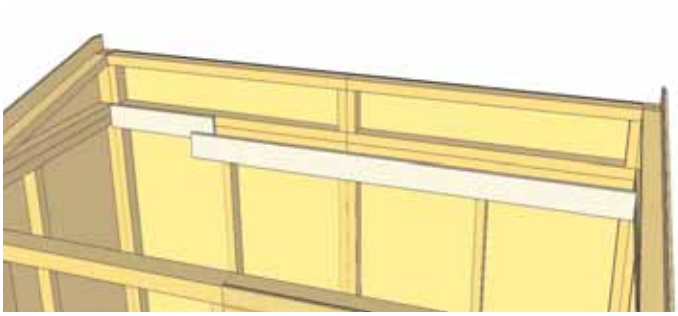


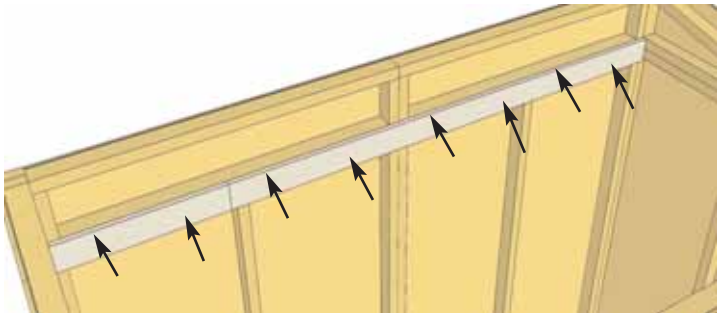


27. With 2x3 wall framing aligned, attach Wall Extendor to both the Angled Wall Extendor framing and the rear wall framing with 5 - 2 1/2" screws.



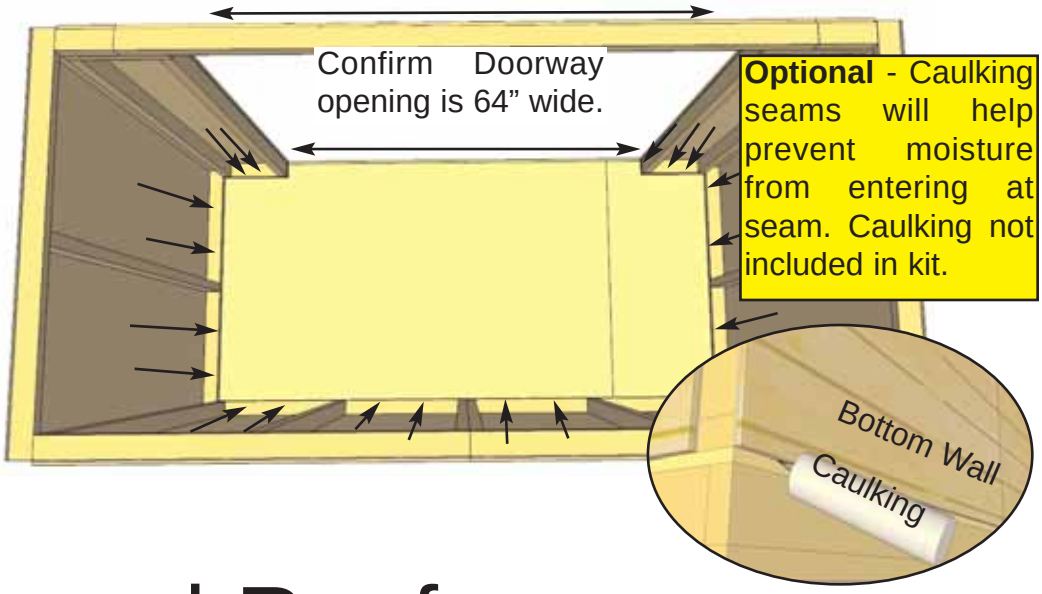
28. Position and secure 2nd Wall Extendor Panel as per **Steps 26 & 27**. Attach together with 2 - 2 1/2" screws.





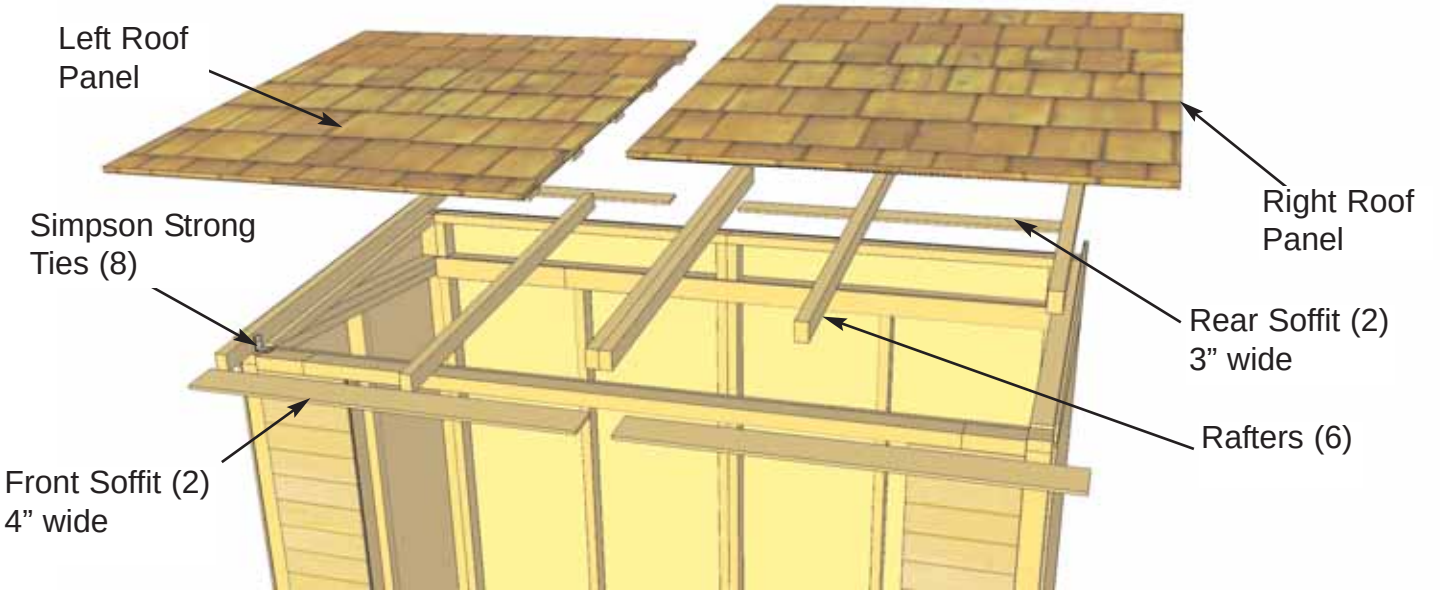
29. Attach **Horizontal Wall Cleats** to Wall Extendor bottom framing and Rear Wall top framing, so that cleat is flush with extendor framing. There is a short and a long wall cleat. Alternate alignment of screws, so half screw into Wall Extendor Framing and half into Rear Wall Top Framing. Use 8 - 1 1/4" screws.

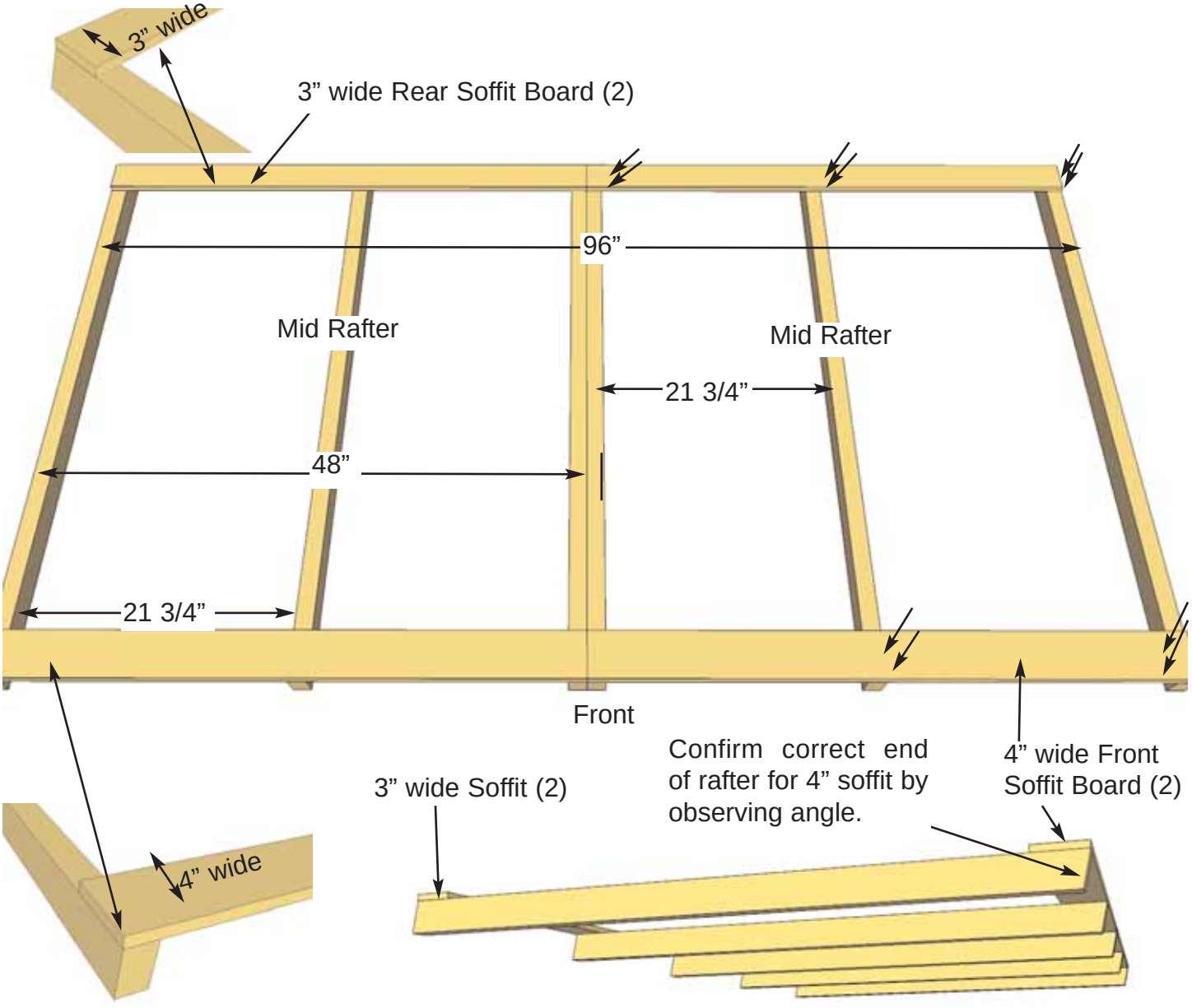
30. To complete Wall Section**,** attach bottom 2x3 wall plates to plywood floor with 20 - 2 1/2" screws. Confirm Doorway opening is 64" wide. Prior to securing, make sure wall panels are aligned correctly on the floor. Refer to **Step 11.** Wall siding should overhang floor while 2x3 wall plates should sit flush with floor.



C. Rafter and Roof

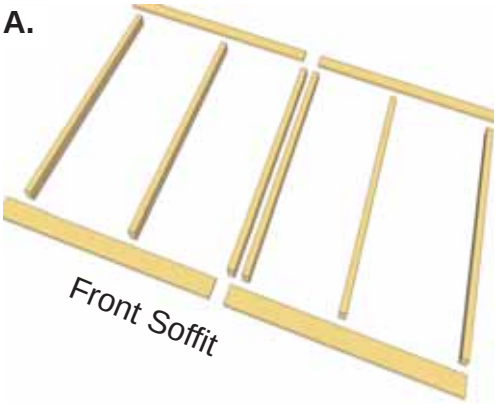
Exploded view of all parts necessary to complete the Rafter and Roof Section. Identify all parts prior to starting. 5 1/2" Wide Filler Shingles not shown in Illustration.



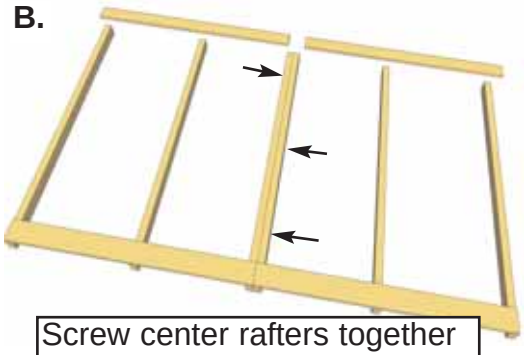


31. Locate 6 **Rafters**, 2 Front **4” wide Soffits** and 2 Rear **3” wide Soffits**. Lay out on level ground and assemble as shown in Illustrations **A** through **C** below. Attach Soffit Boards flush to end of outside rafters with 2 - 1 1/4” screws per rafter end. **Important:** Drill pilot holes in Soffit ends to prevent splitting. Measure and attach interior Rafters as illustrated above. Measure and attach remaining Soffit/Rafter connections using 2 - 1 1/4” screws per rafter/soffit.

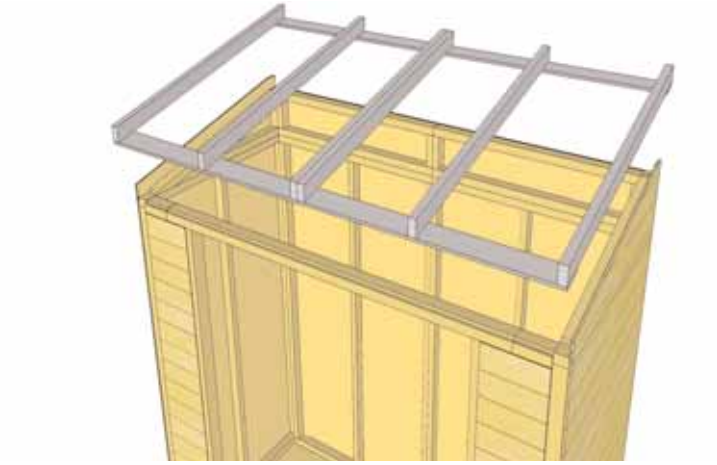
A.



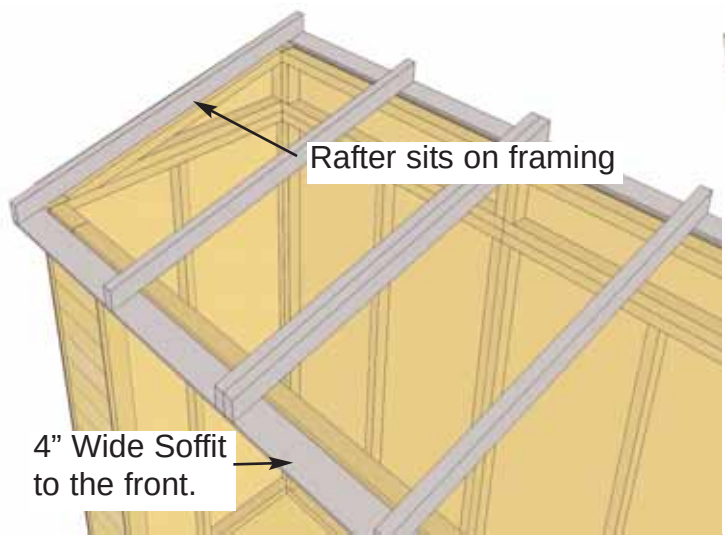
B.

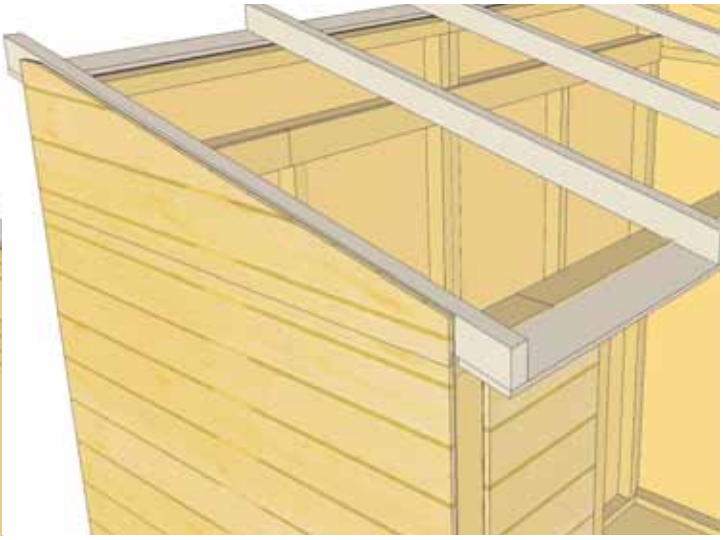


C.

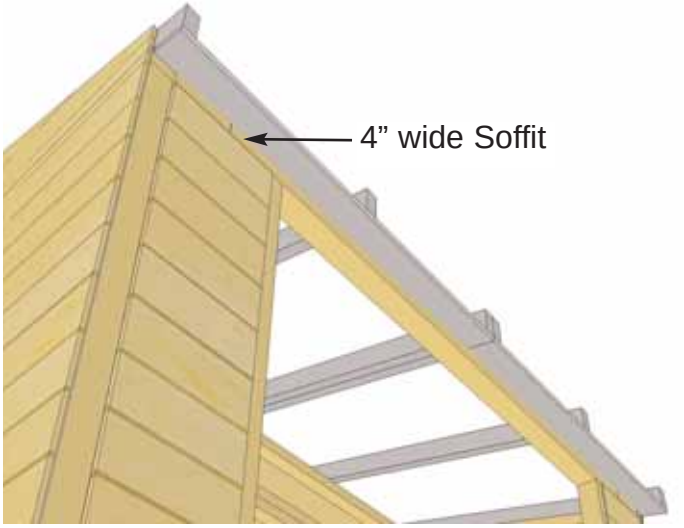


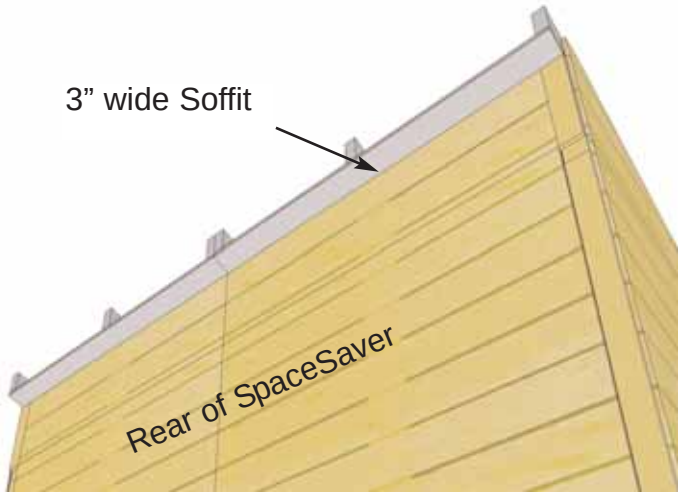
32. Carefully flip completed Rafter Section over so 4” wide Soffit is facing the front and place on SpaceSaver walls. **Note:** once again, make sure 4” wide Soffit is positioned to the front of the shed.



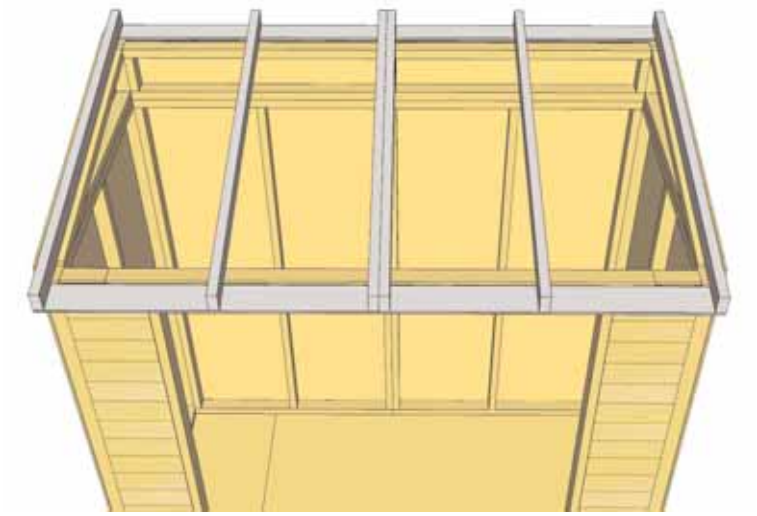


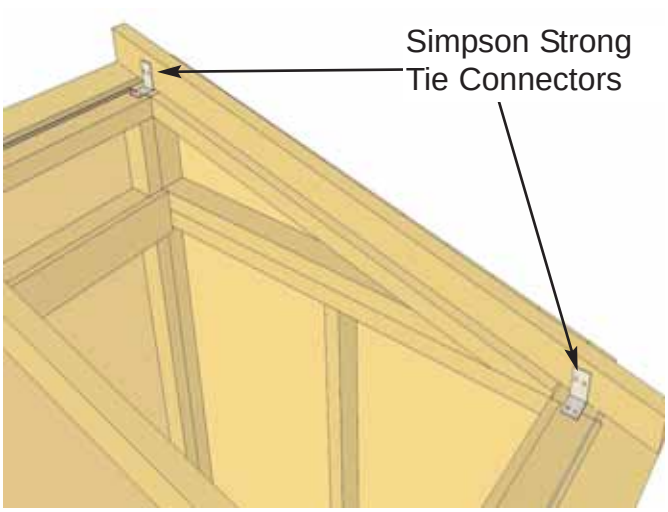
33. Position completed Rafter Section on top of walls. Outside Rafters will sit on Extension Wall framing and be positioned equally from side to side.



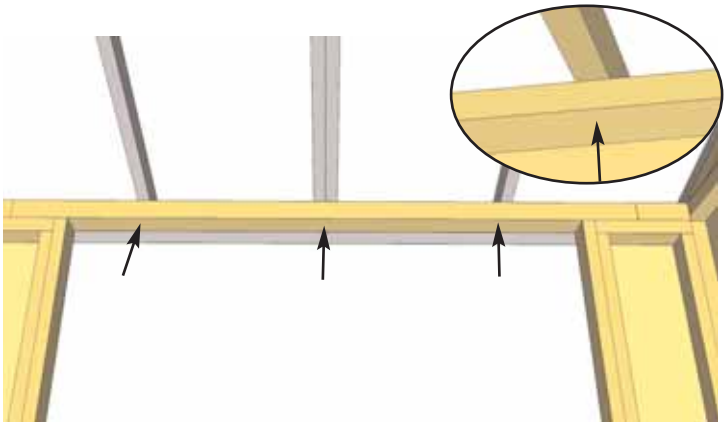


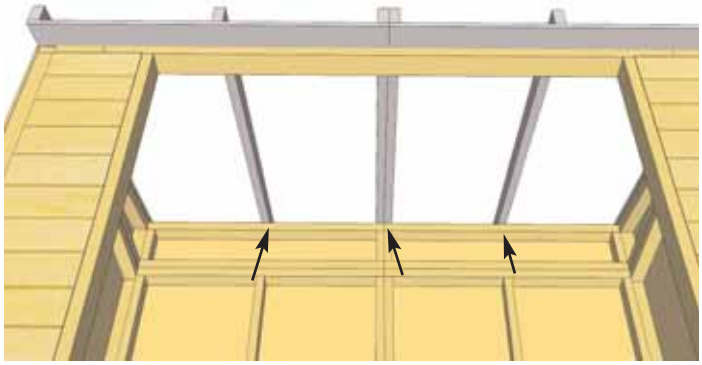
34. When Rafter Section is positioned correctly, both Front and Rear Soffits will sit approximately 1/8” away from wall siding. This can vary slightly.



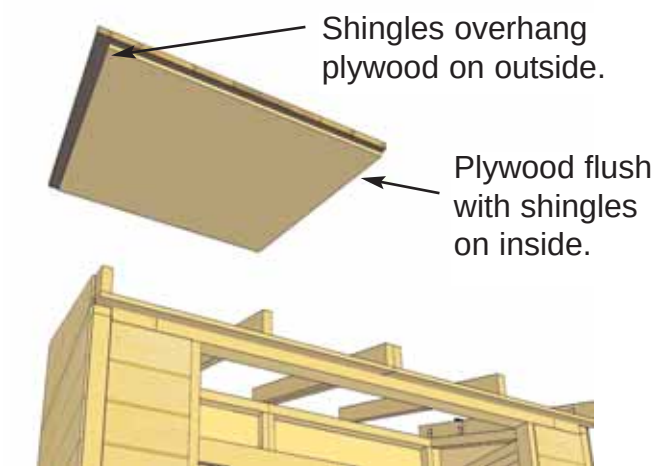


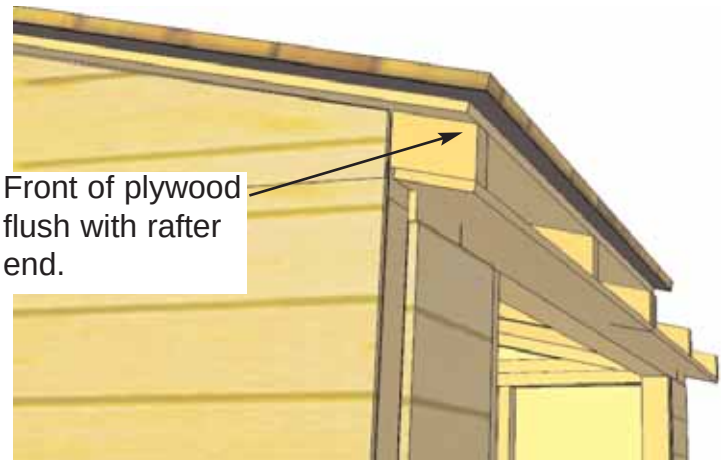
35. With Rafter Section correctly aligned, secure rafters to walls using **Simpson Strong Tie Connectors**. Start with outside rafters and secure 2 Strong Ties with 1 1/4" screws. Screw into Wall Extension Framing at the rear and Wall Panel top framing at the front. Complete both sides.



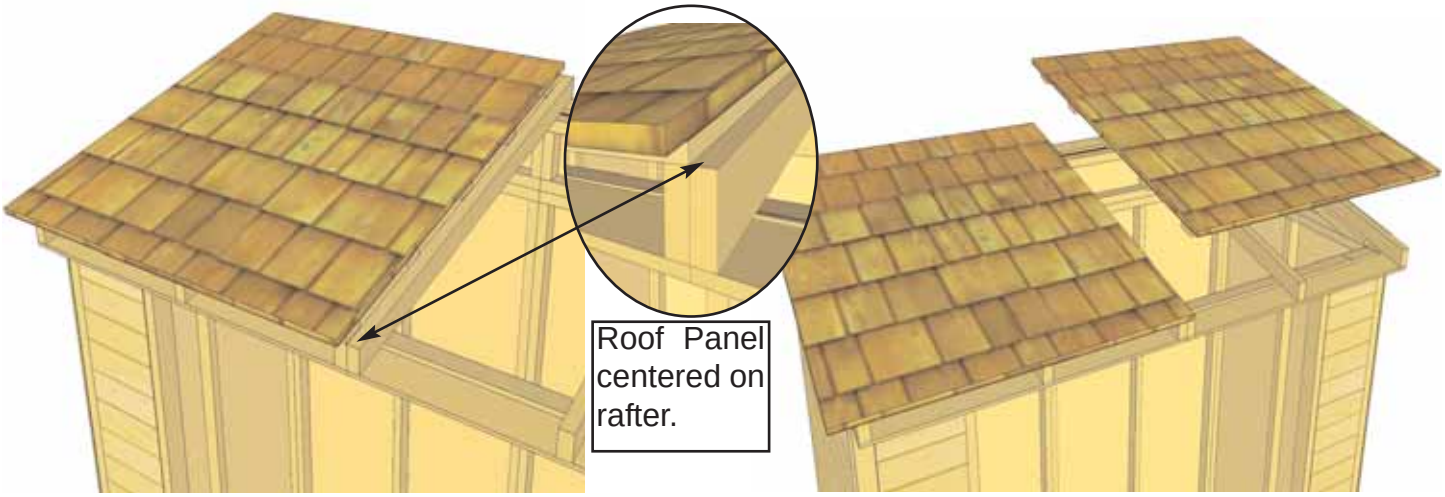


36. With outside rafters properly secured, completely secure remaining interior rafters using 6 - 2 1/2" Screws. Screw into rafters from inside of Header at front of shed, and from inside of Extension Wall Framing at rear of shed.





37. Correctly orientate Left Side Roof Panel with shingles overhanging roof plywood on the outside left and shingles flush with plywood to the right. Place on rafters with front of plywood flush with rafter end. **Note:** trimmed shingles on roof panel to back of shed.

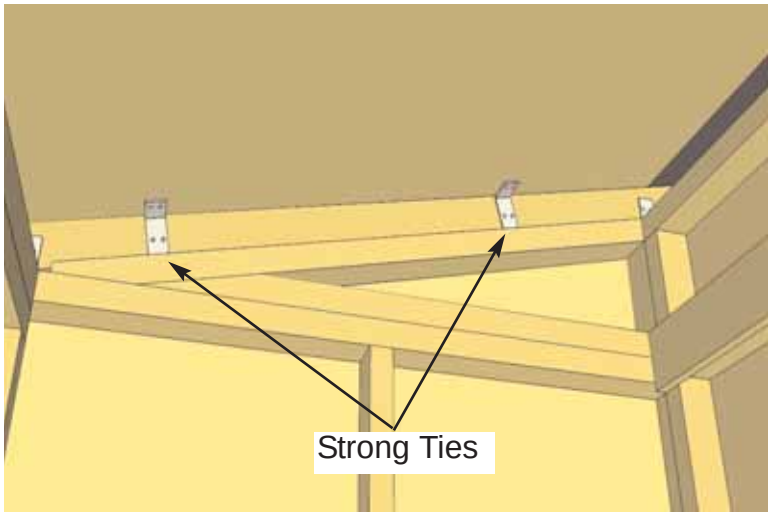


38. For correct Roof Panel position, align panel so plywood sits evenly on Center Rafters. Complete both roof Panels.

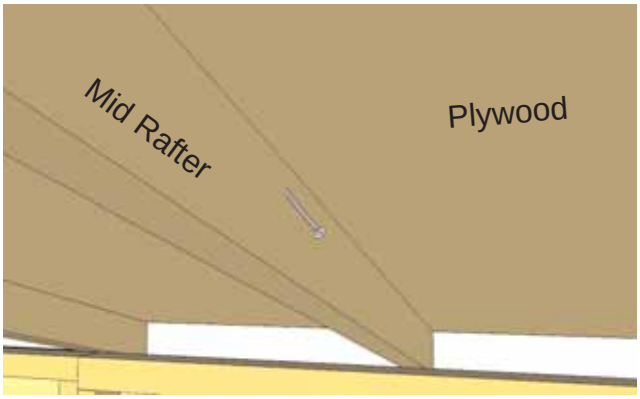
39. With Roof Panels aligned, screw panels down to the center rafters with 2 - 2 1/2" screws in **Bottom Row of Shingles Only. (1 screw per panel)**

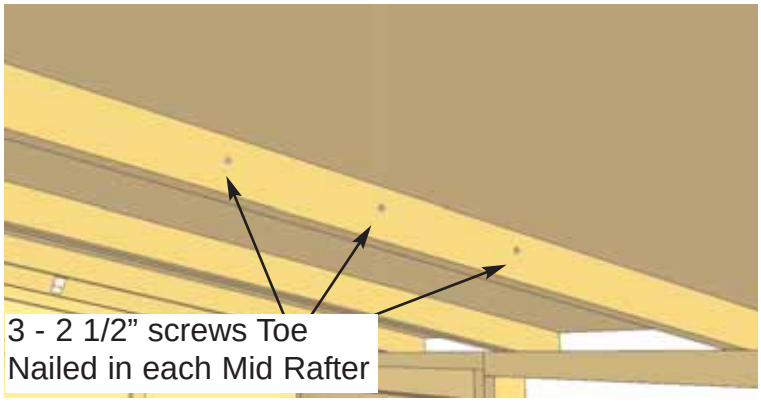
40. Roof **Filler Shingles** are included to cover roof seams. Starting at the bottom, slide the first Long shingle in until flush with other bottom shingles. Screw first filler shingle down to rafters using 1 - 2 1/2" screw per panel (2 in total). Screw on slight angle and make sure to screw into rafter.

41. Slide in another Long Filler Shingle and attach as per **Step 40.** On your last Filler Shingle, attach to roof with 2 - 1 1/4” finishing nails.



42. Secure roof panels to walls at both ends by positioning 2 Simpson Strong Ties on plywood and outside rafters and securing with 4 - 1 1/4” screws per Strong Tie. Complete both sides.



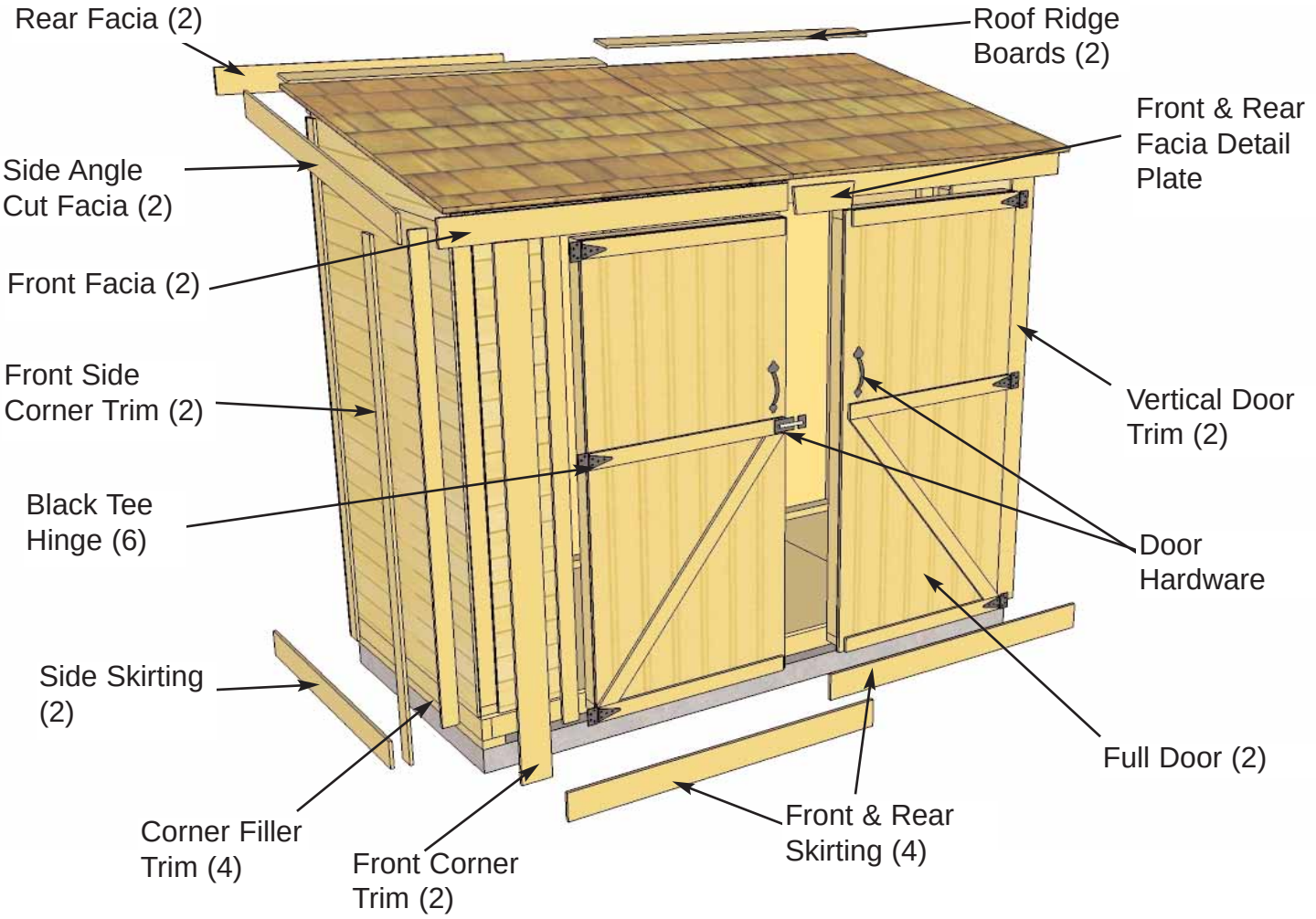


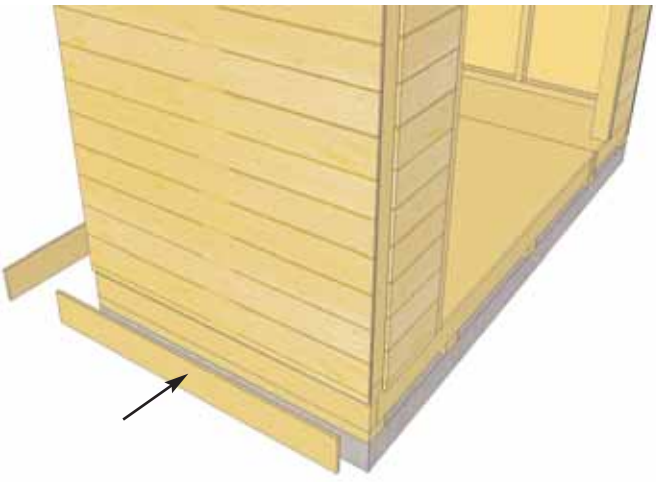
43. To further secure roof panels from the inside, drill pilot holes on an angle in each panel’s Mid Rafter (3 per Rafter). Using 3 - 2 1/2” screws, secure rafters to plywood. **Note:** from outside, have a helper push roof panel down so plywood sits flush against rafter while securing.

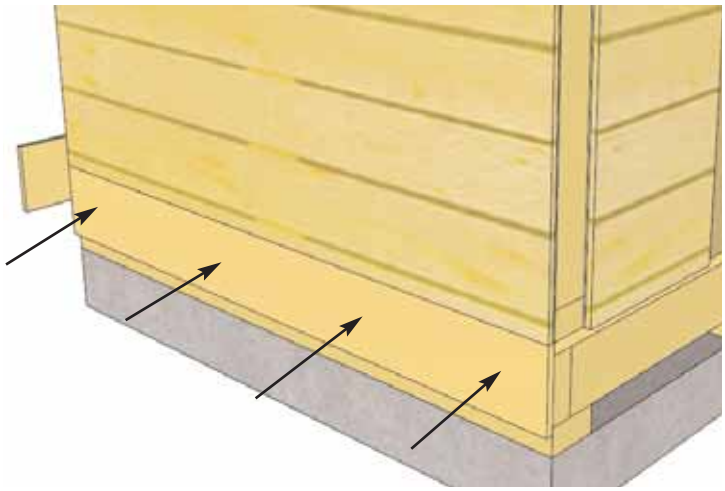
D. Miscellaneous Section

Exploded view of all parts necessary to complete the Skirting, Trim, Facia and Miscellaneous Pieces. Identify all parts prior to starting.

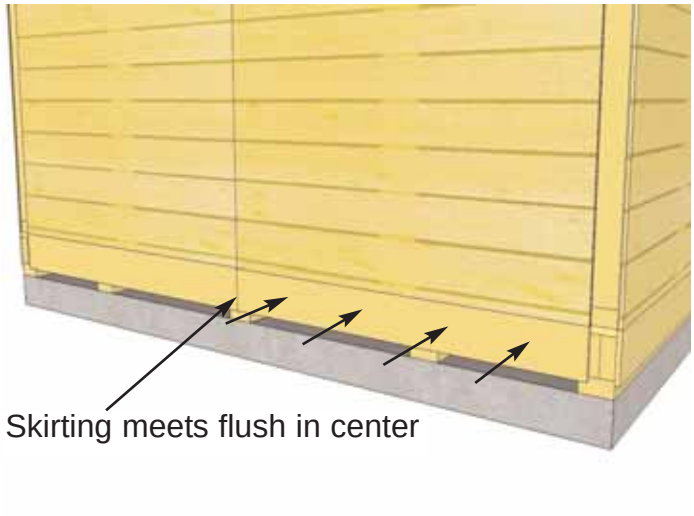
(Not Shown: Door Stops, Flange, Threshold, Rear Trim, Horizontal Door Trim and Roofing Felt)



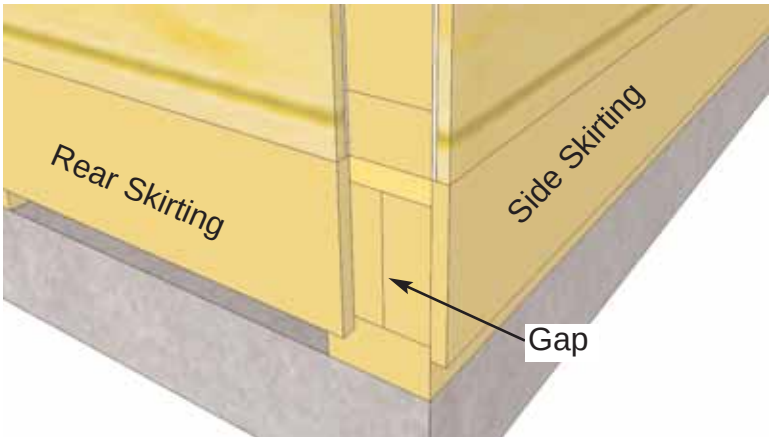


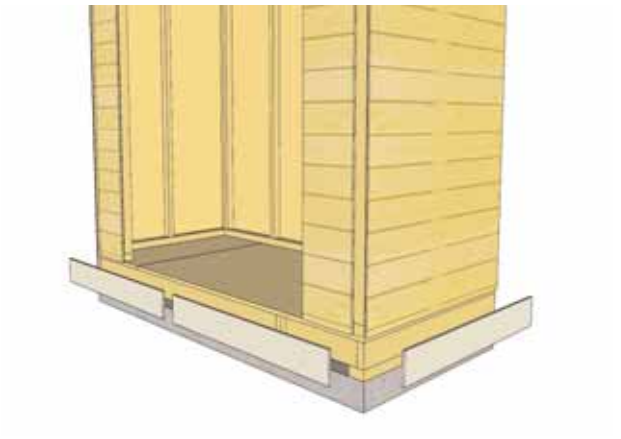


44. Attach **Bottom Skirting** around the base of the shed. Skirting will hide floor framing. Start with side skirting pieces first and attach with 4 - 1 1/4" finishing nails per piece.

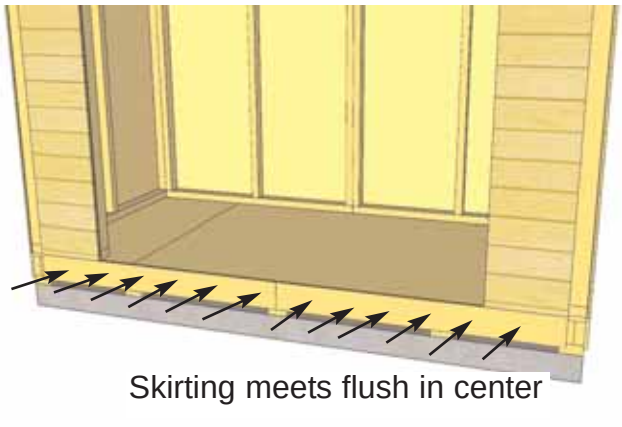


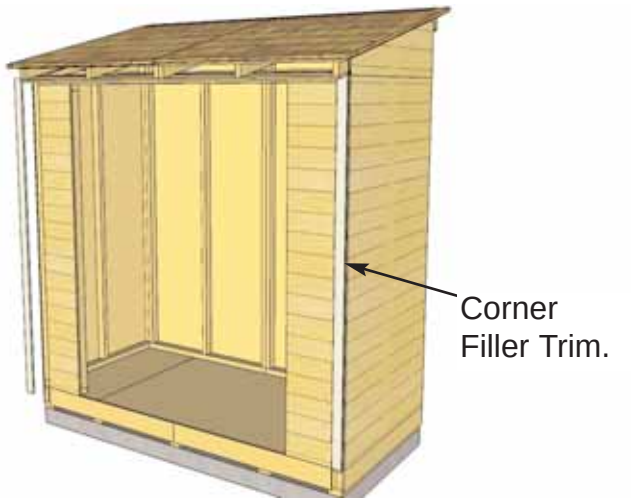
45. Rear skirting pieces will meet together in the center. Secure with 4 - 1 1/4” finishing nails per piece.





46. Gaps on outside will be covered by Corner Trim pieces later. Complete front and side skirting attachments.

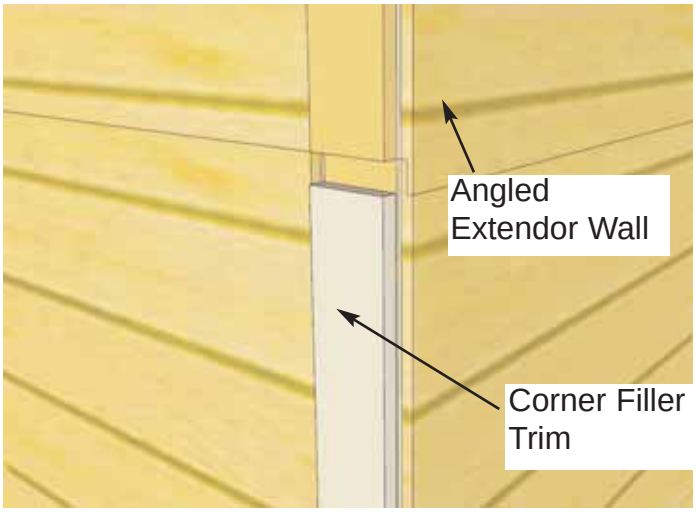




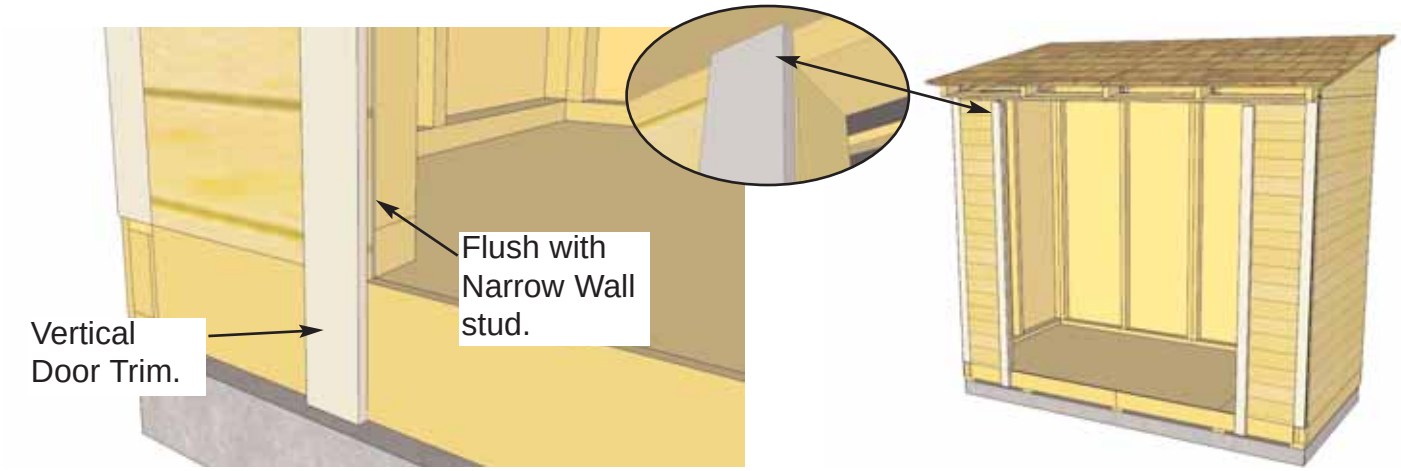
47. Use 6 nails on front skirting piece where doors will be installed. This ads extra support to a high traffic area.

48. Locate **Corner Filler Trims** (2 - 1/2” x 2 1/2” x 75”) and place in front corners of SpaceSaver.

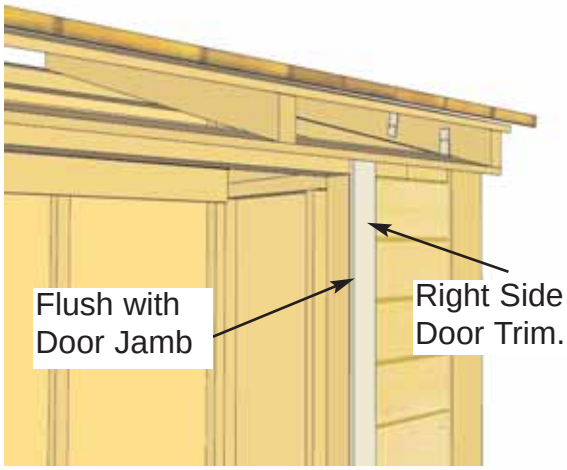
49. Attach **Corner Filler Trims** where gaps exist in front corners. Hammer with 8 - 1 1/4" finishing nails. Corner Fillers are positioned flush with front siding and to the top of the bottom skirting.



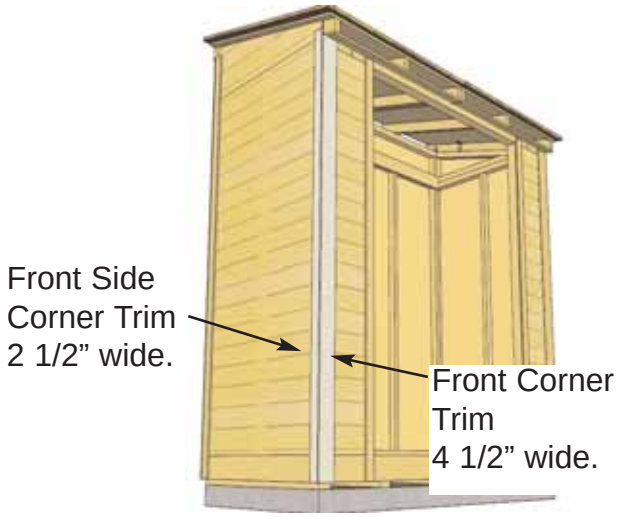
50. Position and attach Corner Filler Trims in the rear as per **Step 49.**



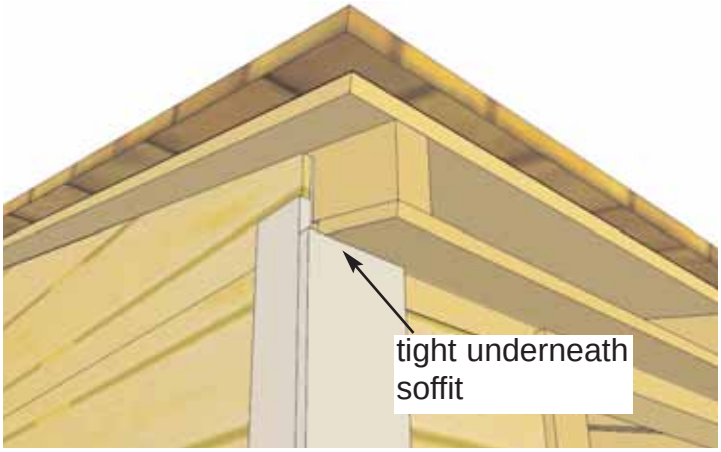
51. Locate **Vertical Door Trim** - (2 - 1/2" x 2 1/2" x 78 3/4"). Position Door Trim flush with outside narrow wall stud. Trim should be aligned tight underneath Soffit. Attach with 8 - 1 1/4" finishing nails.

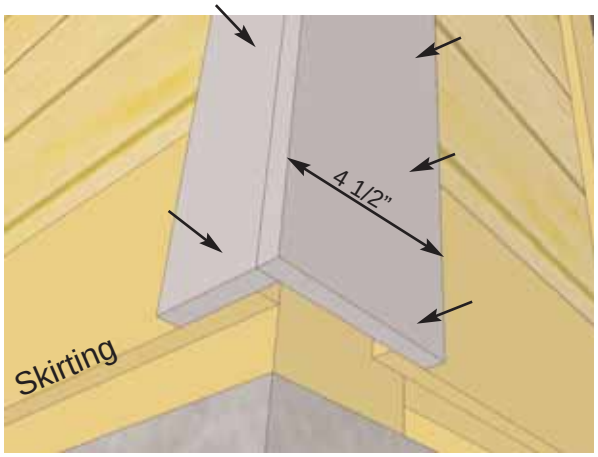


52. Position and attach opposite side Door Trim as per **Step 51.**



53. To completely trim out front corners, locate a **Front Side Corner Trim** - 1/2" x 2 1/2" x 80" and a **Front Corner Trim** - 1/2" x 4 1/2" x 78 3/4".





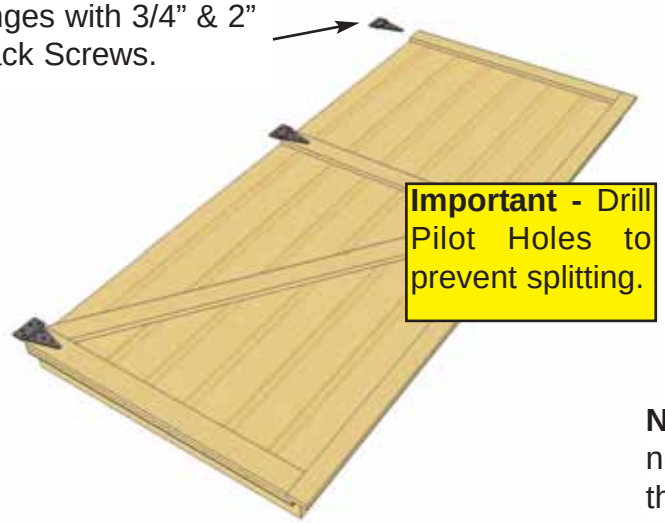
54. Place both trims in front corner and align as illustrated above. Do a dry run prior to attaching to achieve best fit. Start with 4 1/2" wide Front Corner Trim and align tight underneath soffit to determine vertical height. Attach with 8 - 1 1/4" finishing nails per piece. Position and attach Front Side Corner Trim (2 1/2" wide) using 8 - 1 1/4" nails.

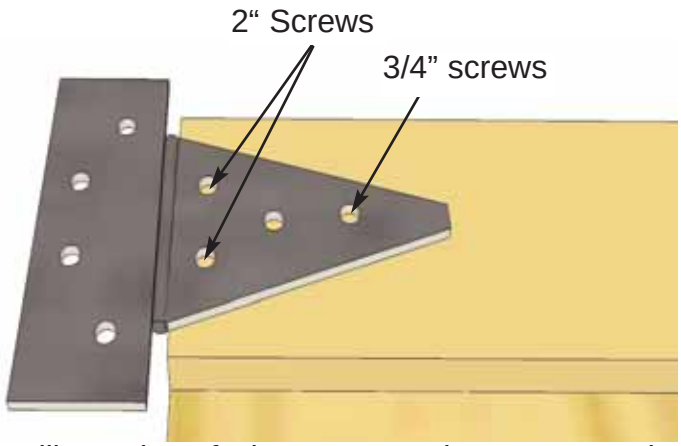
55. To completely trim out rear corners, locate **Rear Side Corner Trim** -1/2" x 2 1/2" x 88 3/4" and a **Rear Corner Trim** - 1/2" x 4 1/2" x 88 3/4". Align and attach as per **Step 54**.

56. Attach **Middle Trim** - 1/2” x 2 1/2” x 88 3/4” where wall panels come together at rear seam. Attach with 8 - 1 1/4” finishing nails aligning flush with bottom skirting.

57. To trim out door, locate **Horizontal Door Trim** (64” long) and both **Horizontal Narrow Wall Trims** (10” long). Position as shown above and attach with 1 1/4” finishing nails.

Attach Black Tee Hinges with 3/4” & 2” Black Screws.



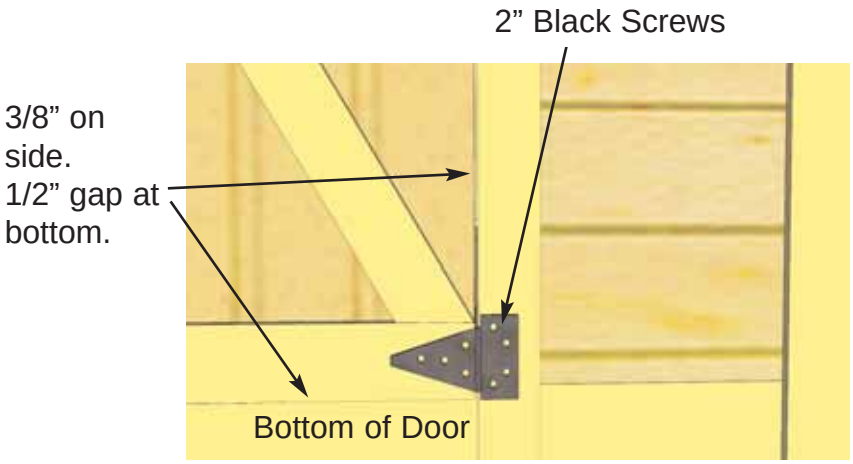


Note: illustration of Hinge may not be accurate. The number of screw holes in the hinge may vary from three to four depending on model.

58. Attach Door Hinges to both **Left** and **Right Side Double Doors**. Position Hinges equally on door trim as shown above and attach with Black 3/4” and 2” screws.

Hint: Lay Extra Piece of Wall Siding (1/2” thick) supplied on floor to help space the Doors vertically.

59. With Hinges attached, position doors in opening.

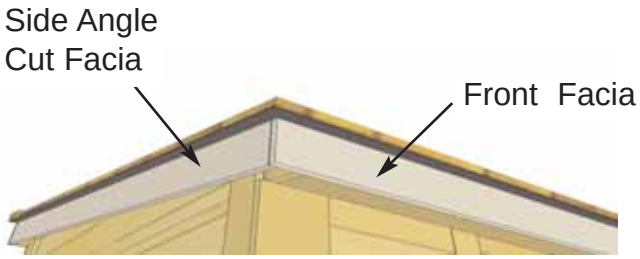


Important - Drill Pilot Holes to prevent splitting.

60. Now secure the Double Doors. Starting with **Right Side Door**, position so there is a 1/2” gap on bottom, and approximately 3/8” on the side. Use a spare piece of siding to shim door in place at the bottom. Using 2” black screws, secure bottom hinge to Door Trim. **Hint:** Do not attach all the 2” screws until both doors are positioned correctly. Use a Screw Driver to tighten screws completely.

61. Make sure Door Panel is aligned evenly at top and edge. When aligned correctly, attach top and middle hinge to narrow trim with hinge hardware provided.

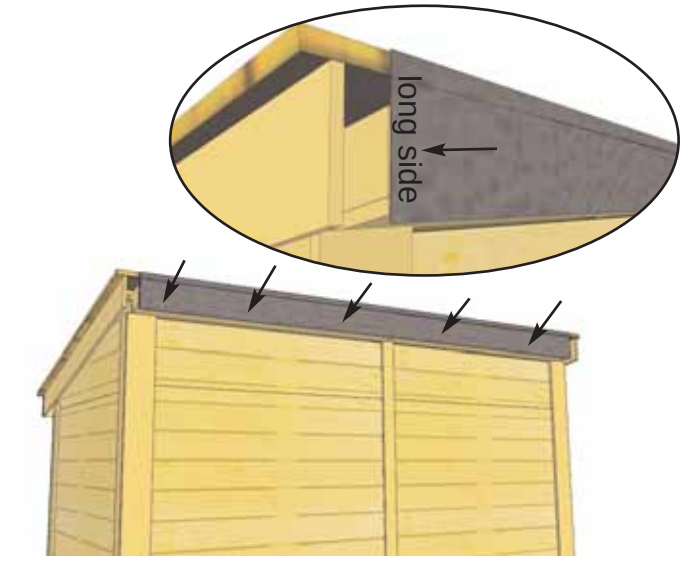
62. Place second Door into position and attach as per **Step 60**. Make sure Doors can open and shut correctly prior to completely securing hinge screws.



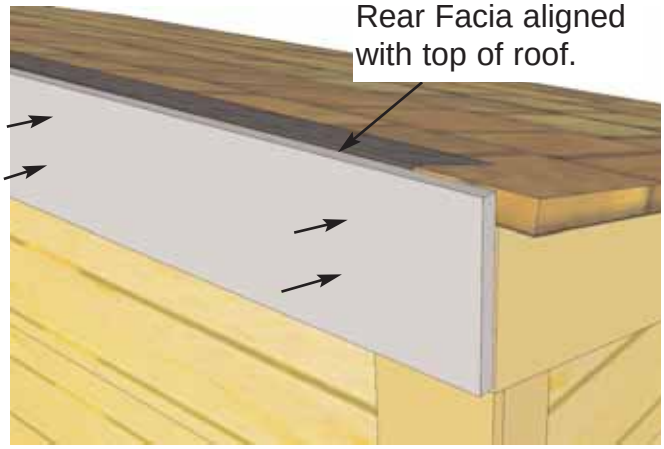
63. Locate and identify all Facia pieces. **Front Facia** is 4” wide while **Rear Facia** is 4 1/2” wide. **Side Angle Cut Facia** is angle cut on both ends. In front corner**,** align side and front Facia together**.**

64. With Side Angle Cut Facia correctly aligned, attach Front Facia to rafter ends with 6 - 1 1/4” finishing nails per piece. Attach Side Angle Cut Facia to plywood edge with 5 - 1 1/4” nails. Attach next piece of Front Facia. Align Facia in corner as per **Step 63**. **Note:** with Front Facia correctly aligned at corners, a small gap may occur at center seam. This will be covered by Facia Detail Plate in **Step 76.**

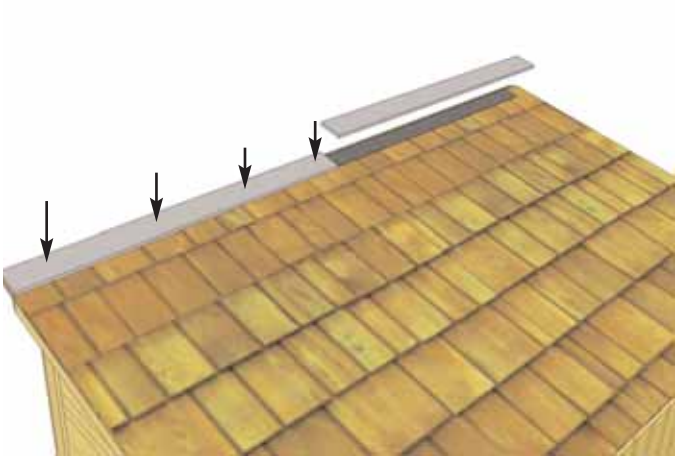
65. Locate 8” wide x 96” long **Roofing Felt** and make a 3 3/4” wide fold along the 96” length. Place on top of roof shingles evenly spaced between outside rafters and secure with 4 - 1 1/4” nails.

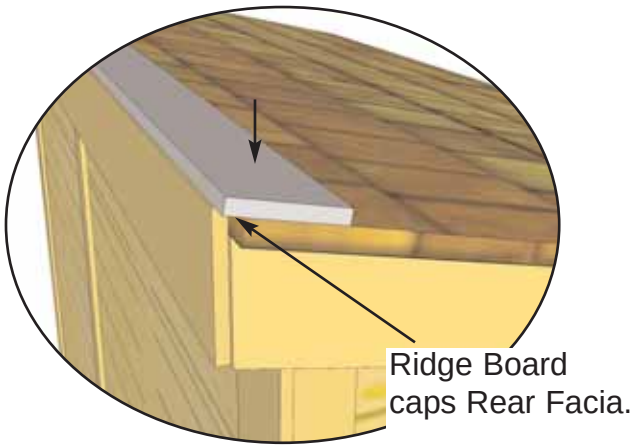


66. Nail Roofing Felt down with 1 1/4” nails to ends of rafters. Roofing Felt will slightly overhang rafters.

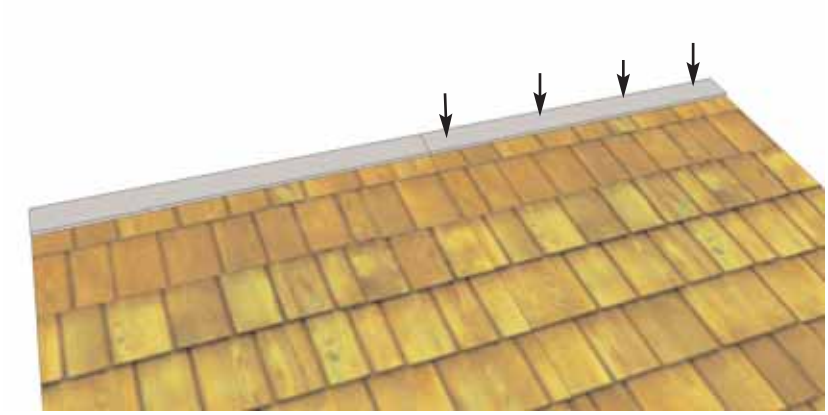


67. Locate **Rear Facia** (4 1/2” wide) and align with top edge of roof shingles. Attach facia to rafter ends with 6 - 1 1/4” finishing nails per piece. Complete both Rear Facia pieces.

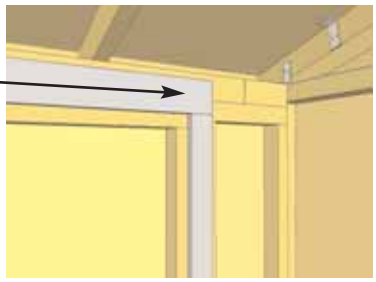




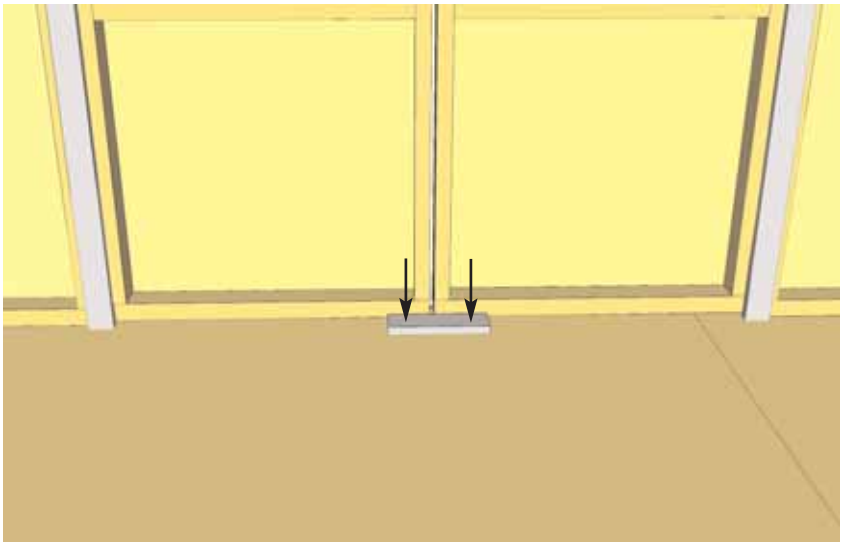
68. Position first **Roof Ridge Board** at the rear of roof to cap off shingles and facia. Ridge Board should meet on seam of roof panel. Ridge Board should also completely cover Roofing Felt. When aligned correctly, attach with 4 - 1 1/4” nails.



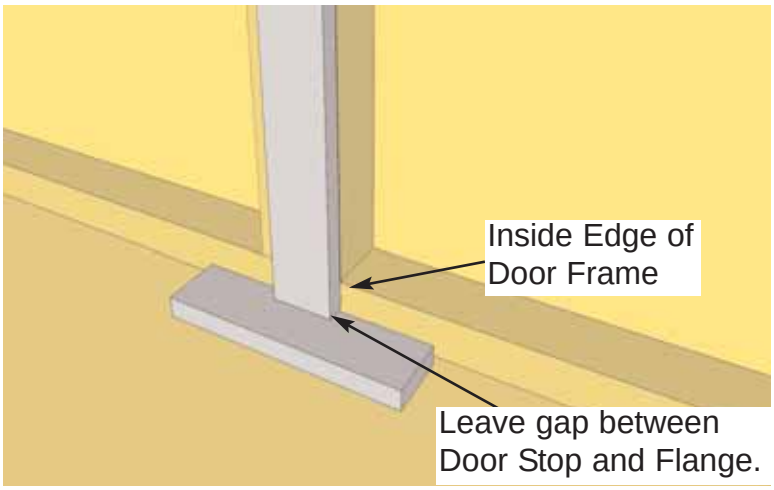
69. Align and attach remaining Roof Ridge Board as per **Step 68.**

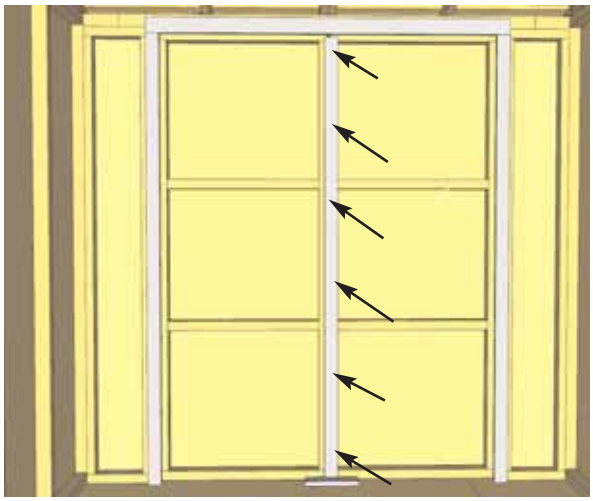


70. Attach Top Horizontal and Vertical **Interior Door Stops** to door header and jambs. Start with Horizontal Stop first, centering over doorway. Then complete both vertical stops. Use 4 - 1 1/4” screws per piece to secure.

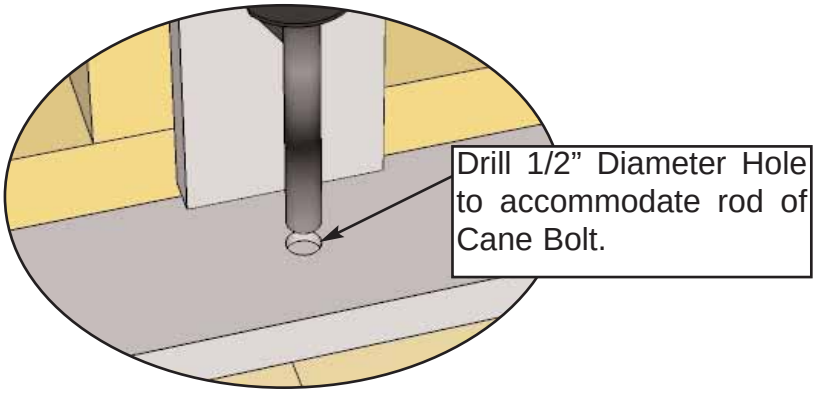


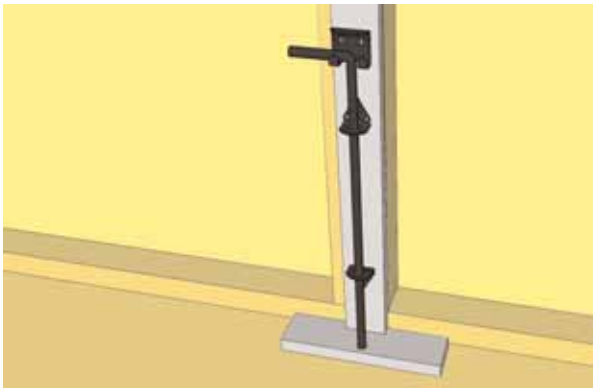
71. Close both doors and align so doors are straight. Attach **Bottom Interior Door Stop** (2 1/2” wide x 10” long) with 2 - 1 1/4” screws, centering between doorway.





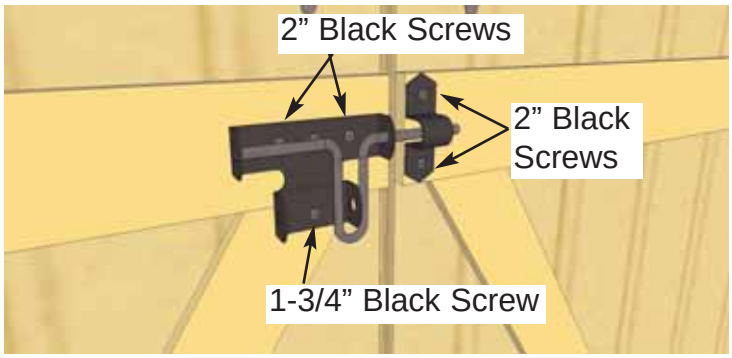
72. Position and attach **Interior Vertical Door Flange** on inside door frame **(left door from outside)** using 6 - 1 1/4” screws. Position on inside edge of door frame so Flange overlaps door frame by 1”.



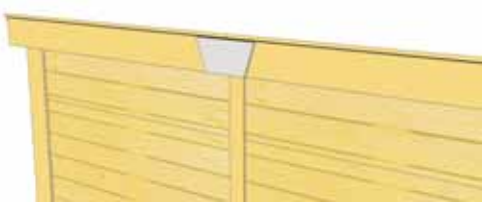


73. The **Interior Cane Bolt** will be attached to Vertical Door Flange. To position Cane Bolt correctly, attach to flange first, close doors and mark hole to house Cane Bolt Rod. Open doors and drill hole where previously marked with 1/2” bit. Use hardware provided in each kit to complete installation of all hardware. **Important - Drill pilot holes in Door Flange to prevent wood from splitting.**

74. Attach **Door Handles.** Handles are positioned on top section of each door and mounted with 3/4” Black Screws.



75. Attach Black Barrel Bolt as illustrated above with 2” & 3/4” Black Screws. Note how female part of Barrel Bolt is positioned higher than male. Do a dry run first to position Barrel Bolt correctly. **Important** - Drill pilot holes with 1/8” drill bit prior to securing with screws to prevent wood splitting. On 3/4” screw, drill shallow pilot hole only.



76. Attach **Facia/ Detail Plates** to cover seams where Front and Rear Facia pieces come together. Secure with 4 - 1 1/4” finishing nails per piece.

Note: Our Sheds are shipped as unfinished products. If exposed to the elements, the Western Red Cedar lumber will weather to a silvery-gray color. If you prefer to keep the cedar lumber looking closer to the original color, we suggest that you treat the wood with a good oil based wood stain. You may also wish to paint your new shed rather than stain it. In both cases we recommend that you consult with a paint and stain dealer in your area for their recommendations.

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